

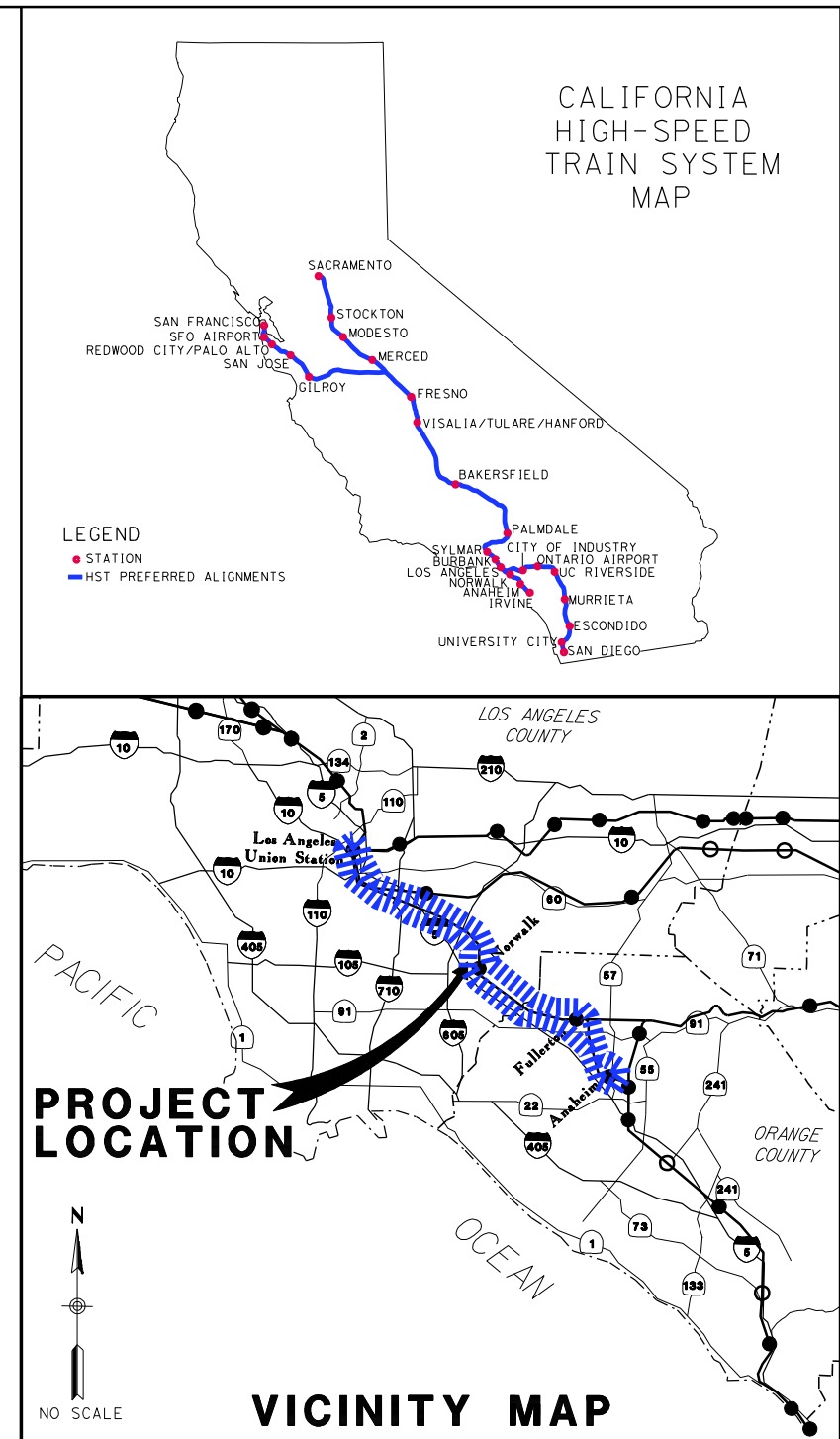


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CALIFORNIA HIGH-SPEED TRAIN PROJECT ORANGE COUNTY TO LOS ANGELES SECTION

15% DESIGN SUBMITTAL (IPS#6) - VOLUME 1 TRACK ALIGNMENT (IPS#1),



**15% DESIGN SUBMITTAL
DECEMBER 30, 2009**

CONTRACT NO.	HSR06-0005
DRAWING NO.	B0101
SCALE	NO SCALE
SHEET NO.	

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barrozd

ABBREVIATIONS

<u>A</u>	
AAR	ASSOCIATION OF AMERICAN RAILROADS
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
AC	ASPHALT CONCRETE; ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT (FEDERAL)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AUTOTRANSFORMER
AVE	AVENUE
APPROX	APPROXIMATE
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE ASSOCIATION
<u>B</u>	
BC	BEGINNING OF CURVE
BNSF	BURLINGTON NORTHERN SANTA FE RAILROAD
<u>C</u>	
CB	CATCH BASIN
CALTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION
CCS	CALIFORNIA COORDINATE SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CHST	CALIFORNIA HIGH-SPEED TRAIN PROJECT
CPUC	CALIFORNIA PUBLIC UTILITY COMMISSION
<u>D</u>	
DEMO	DEMOLISH
DR	DRIVE
DWG	DRAWING
<u>E</u>	
E	EAST
EB	EAST BOUND
EC	END OF CURVE
ELEC	ELECTRICAL
ELEV	ELEVATION
EXIST	EXISTING
<u>F</u>	
FH	FIRE HYDRANT
<u>H</u>	
HDPE	HIGH DENSITY POLYETHYLENE
HSR	HIGH-SPEED RAIL
HST	HIGH-SPEED TRAIN
HV	HIGH VOLTAGE
HWL	HIGH WATER TABLE
<u>I</u>	
IBC	INTERNATIONAL BUILDING CODE
<u>K</u>	
KV	KILO VOLT
<u>L</u>	
L	LENGTH
LA	LOS ANGELES (CALIFORNIA, USA)
LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER
LAUS	LOS ANGELES UNION STATION
<u>M</u>	
MIN	MINIMUM
MP	MILE POST
MPH	MILES PER HOUR
<u>N</u>	
N	NORTH
NB	NORTHBOUND
<u>O</u>	
OC	OVERCROSSING
OCS	OVERHEAD CONTACT SYSTEM
OH	OVERHEAD
O-LA	ORANGE COUNTY TO LOS ANGELES COUNTY
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
O&M	OPERATIONS AND MAINTENANCE

<u>P</u>	
PCC	PORTLAND CEMENT CONCRETE
PED	PEDESTRIAN
PS	PARALLELING STATION (WITH AUTOTRANSFORMER)
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TRANSITION
PL	PLACE
<u>R</u>	
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
RR	RAILROAD
<u>S</u>	
S	SOUTH
SB	SOUTHBOUND
SCE	SOUTHERN CALIFORNIA EDISON
SD	STORM DRAIN
SST	TRACTION POWER SUPPLY STATION (WITH HV UTILITY SUPPLY)
ST	STREET
STA	STATION
SW	SIDEWALK
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SWS	SWITCHING STATION (WITH AUTOTRANSFORMER)
<u>T</u>	
T	TANGENT
TBM	TUNNEL BORING MACHINE
T/R	TOP OF RAIL
TOR	TOP OF RAIL
TVM	TICKET VENDING MACHINE
TYP	TYPICAL
<u>U</u>	
UBC	UNIFORM BUILDING CODE
UC	UNDERCROSSING
<u>W</u>	
WB	WESTBOUND
WKY	WALKWAY

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	J. MARTINEZ
DRAWN BY	D. BARRAZA
CHECKED BY	P. YANKEY
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
GENERAL
ABBREVIATIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	B0131
SCALE	NO SCALE
SHEET NO.	

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barraza

SYMBOLS AND LEGENDS

	EXISTING ROAD CENTERLINE IMPROVEMENTS
	PROPOSED ROAD CENTERLINE IMPROVEMENTS FOR HST
	PROPOSED ROAD CENTERLINE IMPROVEMENTS FOR BNSF
	MATCHLINE
	HST TRACK
	PROPOSED RIGHT-OF-WAY
	EXISTING FREIGHT TRACK TO BE REMOVED
	FREIGHT/PASSENGER TRACK - EXISTING
	FREIGHT/PASSENGER TRACK - NEW
	FREIGHT/PASSENGER TRACK - UNDER CONSTRUCTION - BY OTHERS
	EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
	FILL LINE
	LIMIT OF DISTURBANCE
	PROPOSED STAGING AREA
	GAS LINE
	COMMUNICATION LINE
	WATER LINE
	FIBER OPTICS LINE
	ELECTRICAL LINE
	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
	TELEPHONE LINE
	OIL LINE
	OVERHEAD
	PROPOSED TRACTION POWER FACILITY
	PROPERTY BUFFER

NOTE: FOR ADDITIONAL SYMBOLS SEE CALTRANS STANDARD GENERAL DRAWINGS A10C AND A10D.

	20' ACCESS ROAD
	15' OVERPASS/DUCT BANK
	STREET DETOUR
	CLOSE DRIVEWAY
	POTENTIAL PROPERTY TAKE
	PROPERTY TAKE PER CURRENT BNSF DESIGN
	INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
	INDICATES DIRECTION OF VEHICLE TRAFFIC
	INDICATES DIRECTION OF WATER FLOW
	LIMITS OF BRIDGE REMOVAL
	NORTH ARROW
	CENTERLINE

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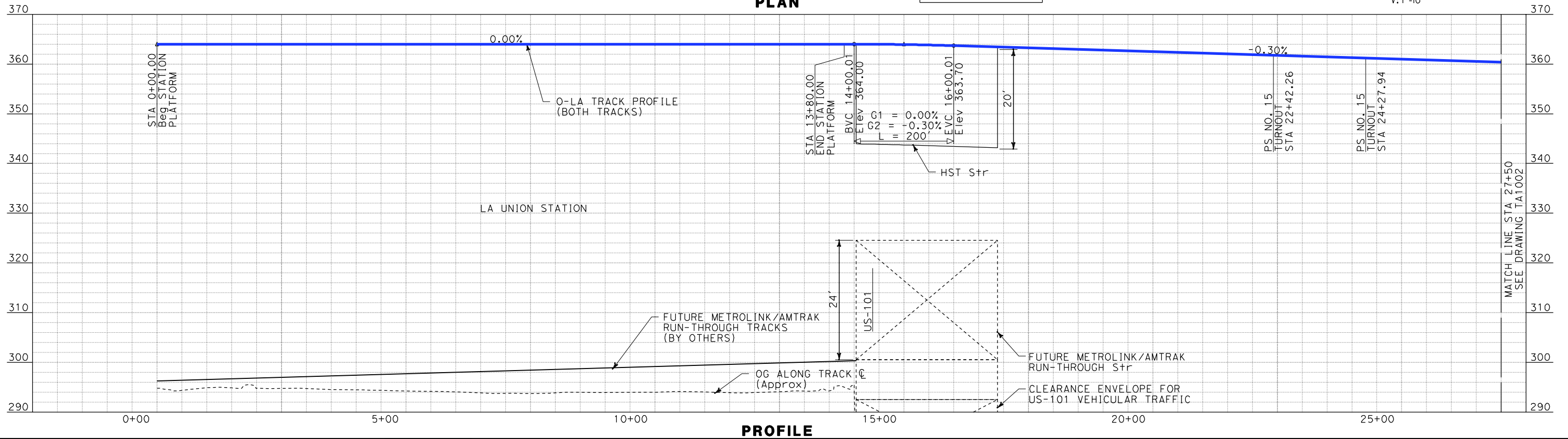
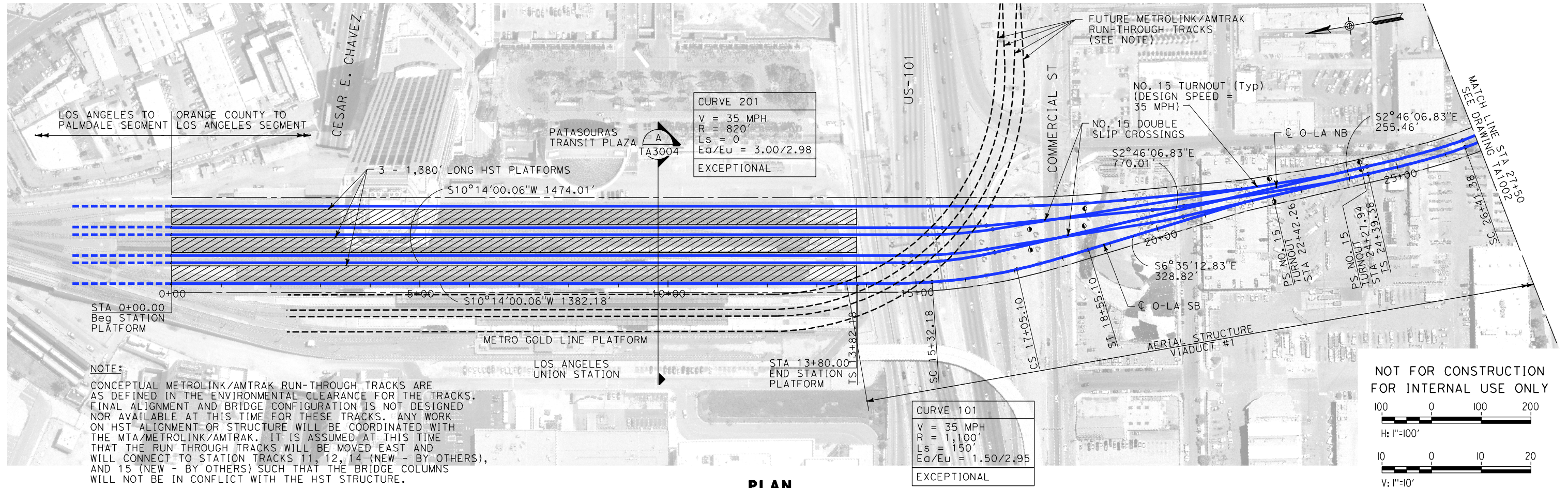
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ORANGE COUNTY TO LOS ANGELES
GENERAL

SYMBOLS AND LEGENDS

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DRAWING NO. B0132
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SHEET NO.

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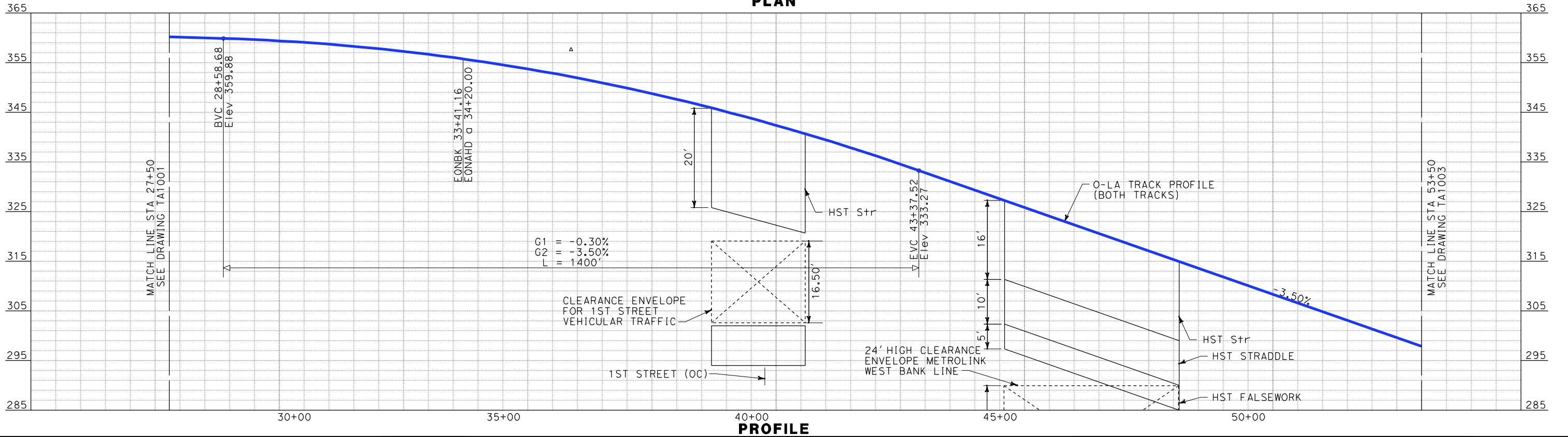
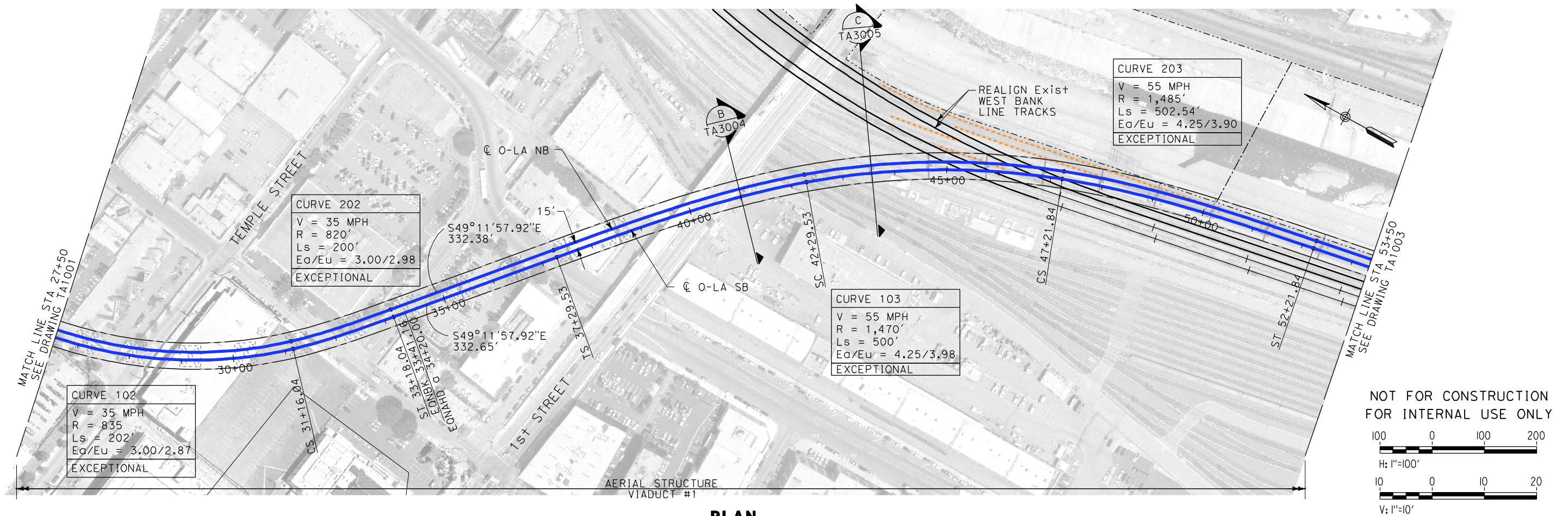
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ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 0+00 TO STA 27+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1001
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FLY CALIFORNIA

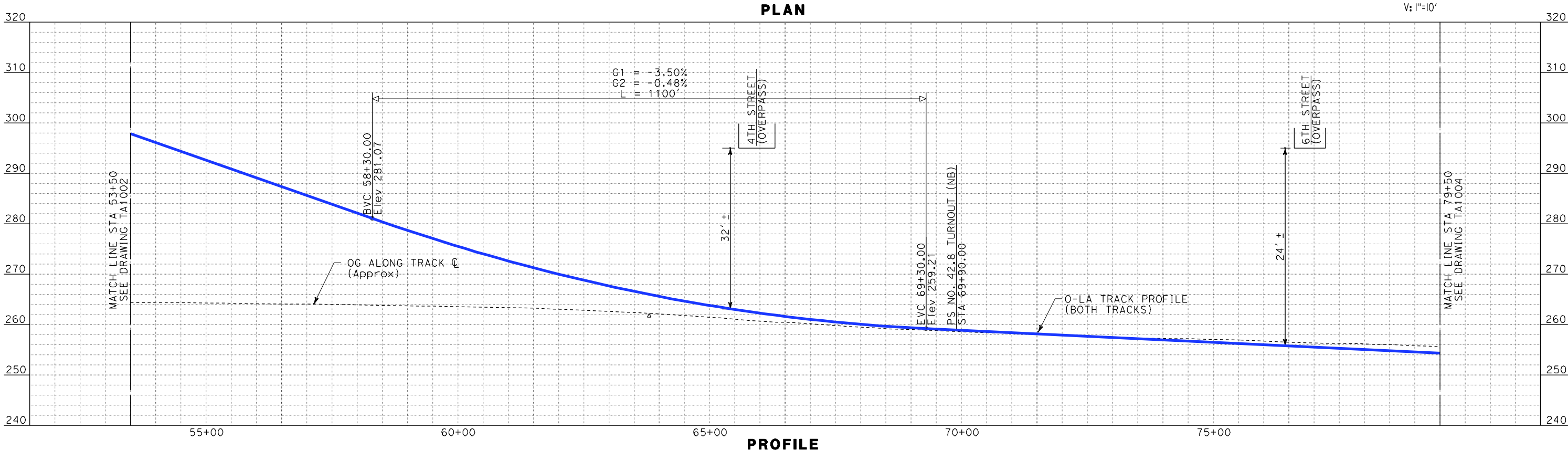
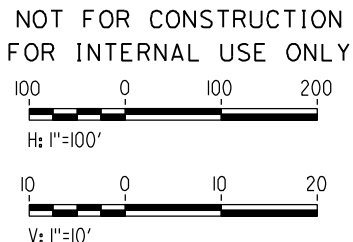
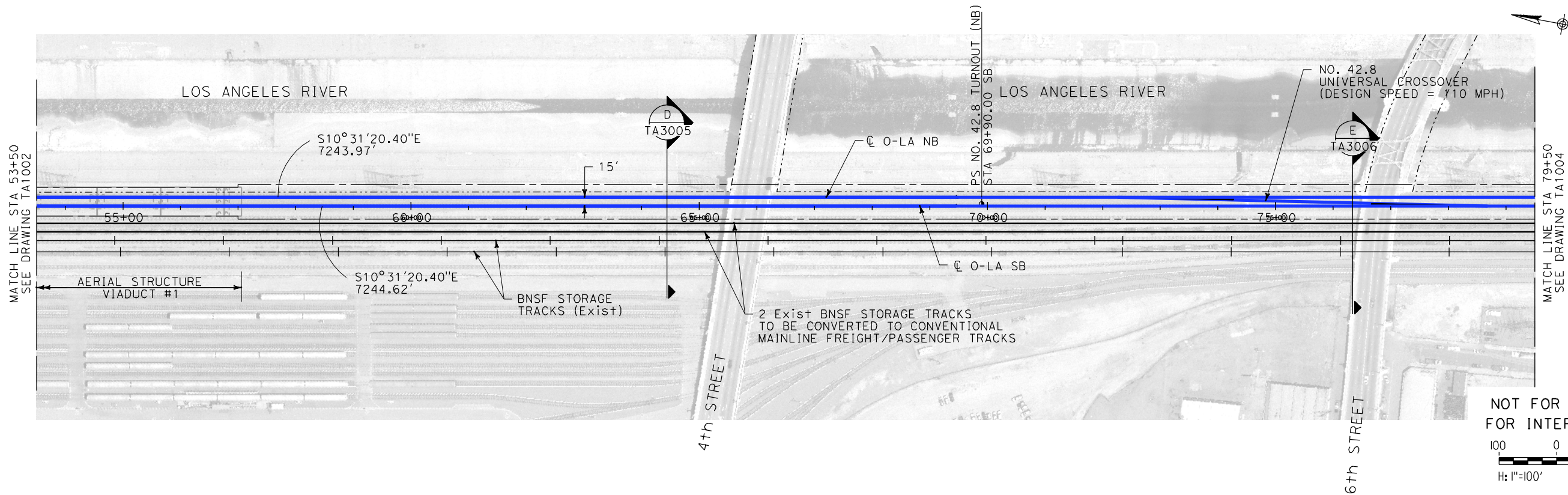
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES

BASELINE ALIGNMENT

PLAN AND PROFILE
STA 27+50 TO STA 53+50

CONTRACT NO. HSR06-0005
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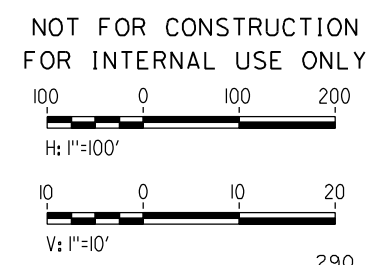
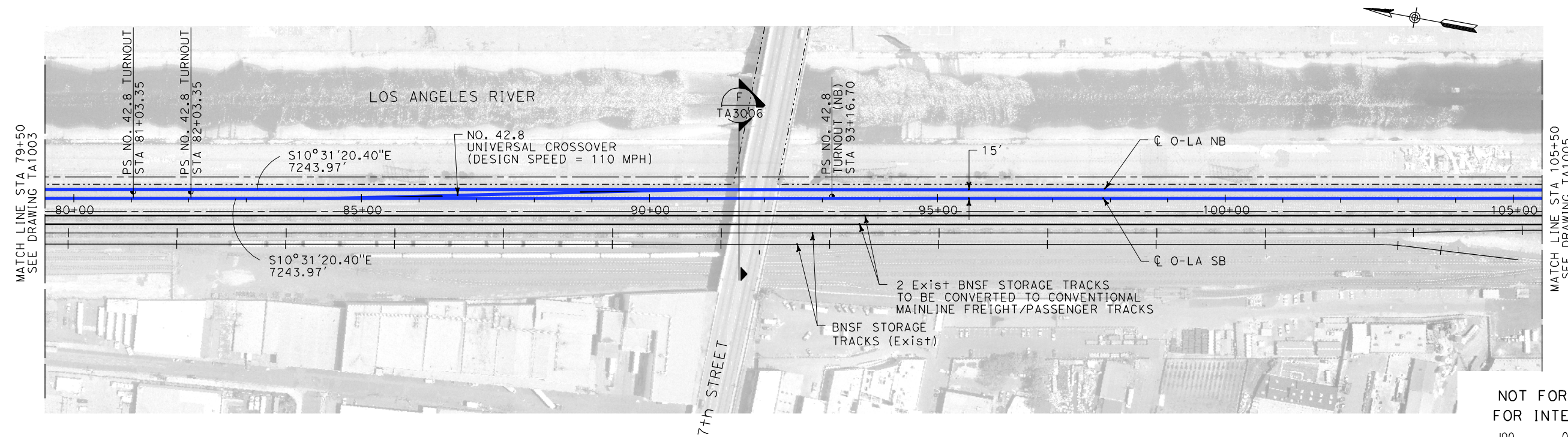
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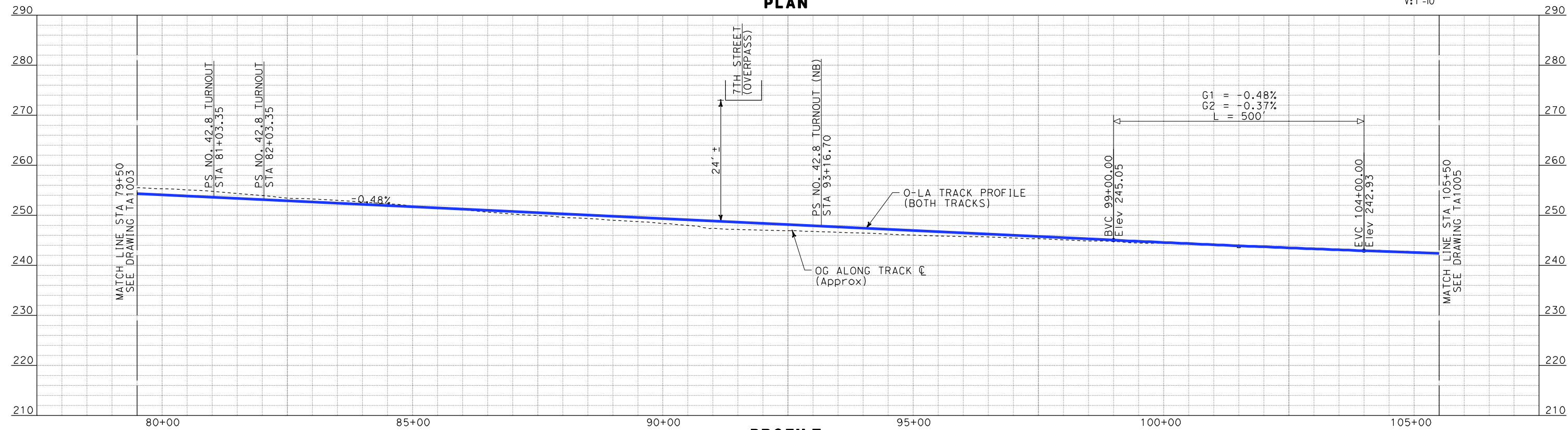
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ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 53+50 TO STA 79+50

CONTRACT NO. HSR06-0005
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SHEET NO.



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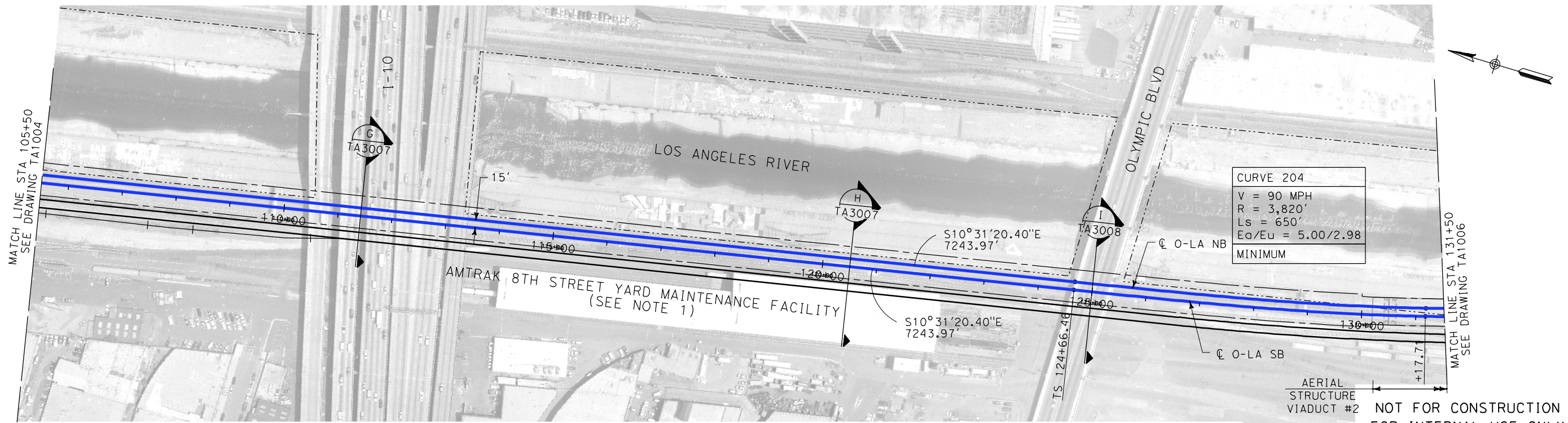


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ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

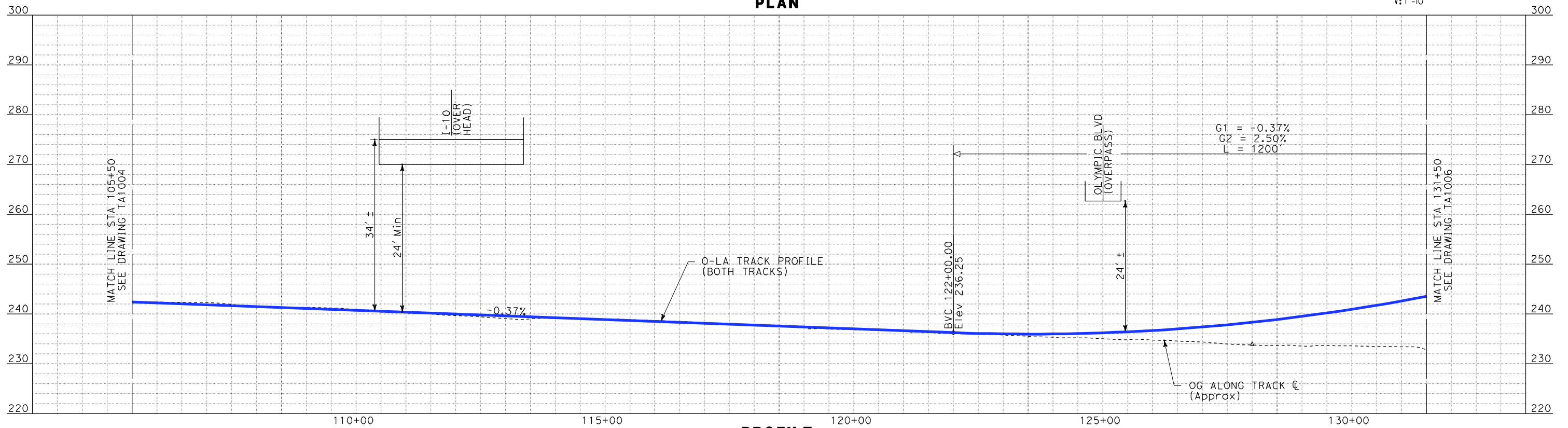
PLAN AND PROFILE
STA 79+50 TO STA 105+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1004
SCALE AS SHOWN
SHEET NO.



NOTES:

1. EXIST 8TH STREET YARD MAINTENANCE FACILITY TO BE MODIFIED/RECONFIGURED TO ACCOMMODATE HST PROJECT. SUBJECT TO DISCUSSION AND COORDINATION WITH AMTRAK.



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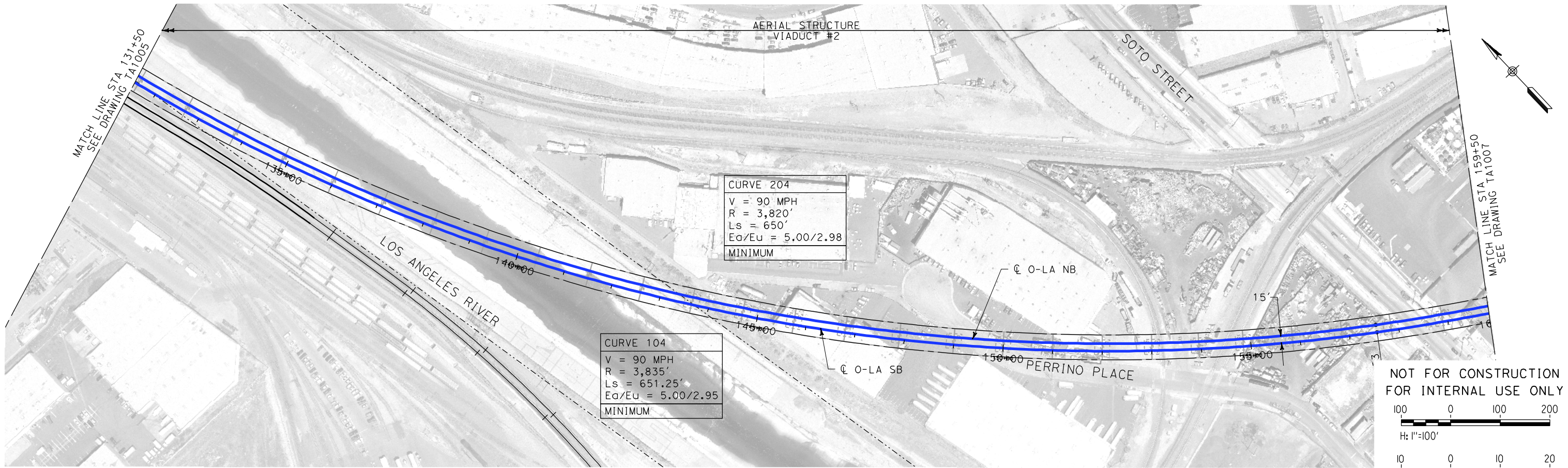
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ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

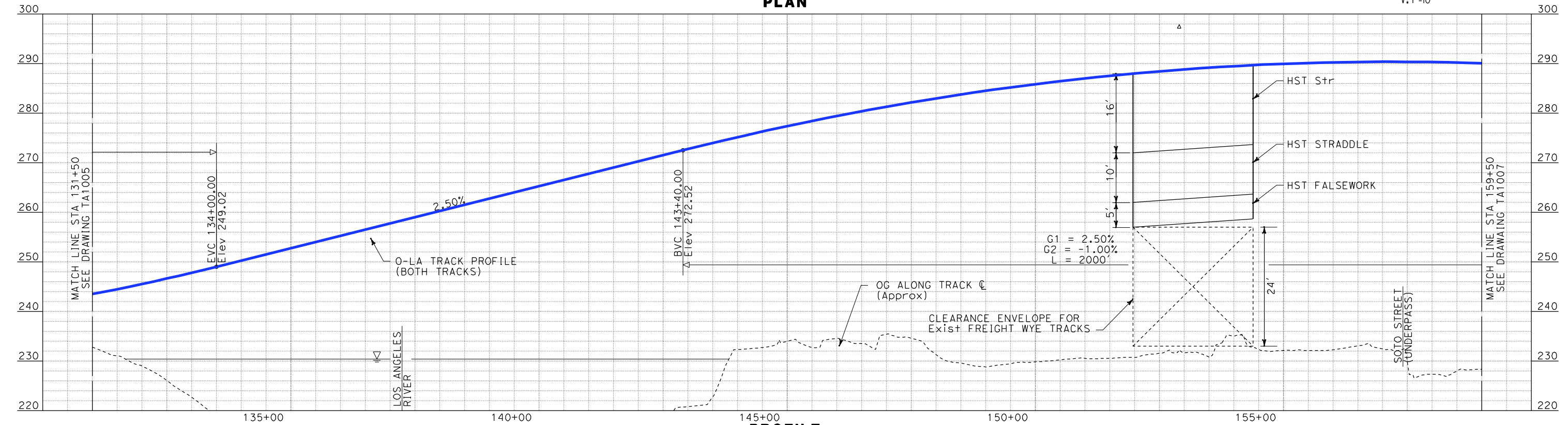
PLAN AND PROFILE
STA 105+50 TO STA 131+50

CONTRACT NO. HSR06-0005
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PLAN



PROFILE

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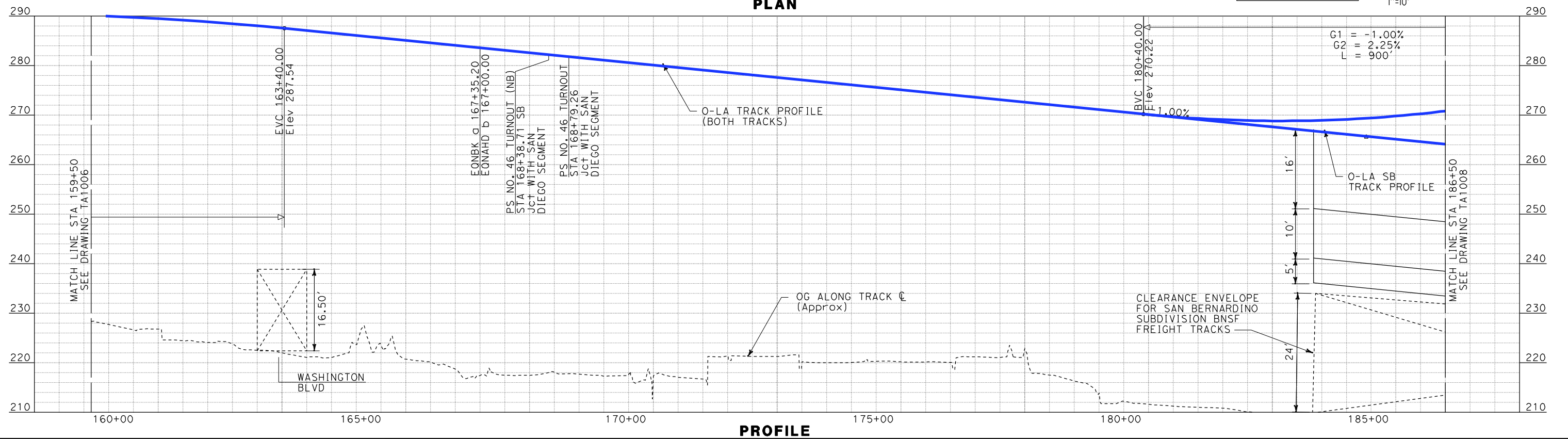
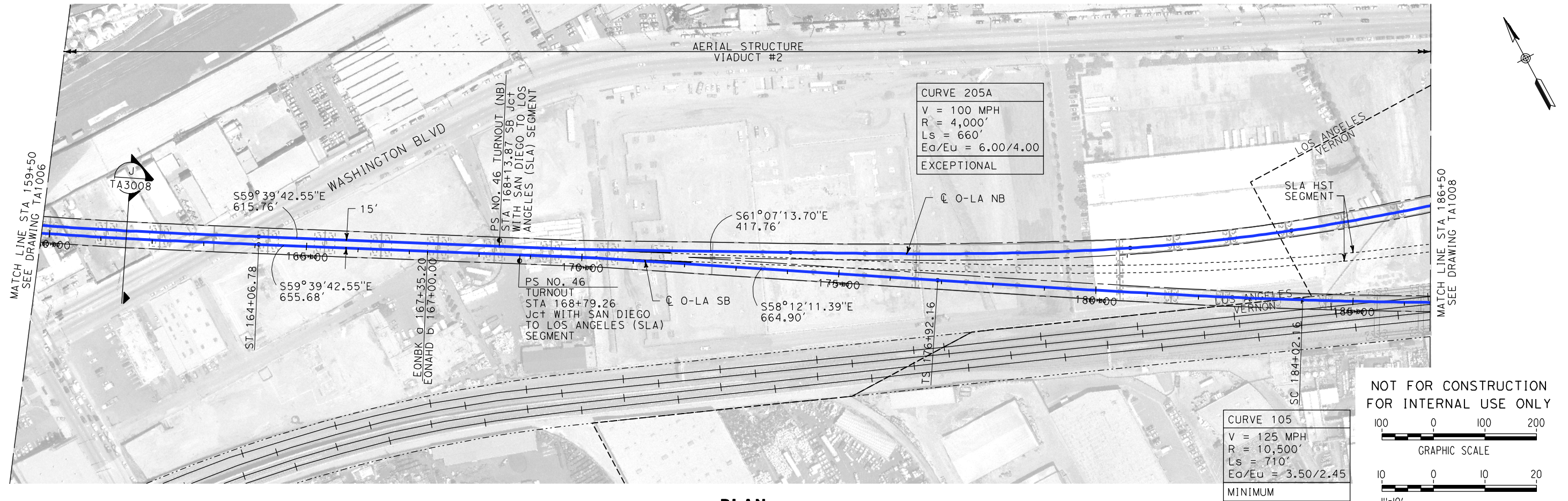
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 131+50 TO STA 159+50

CONTRACT NO. HSR06-0005
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SPERRYKIM



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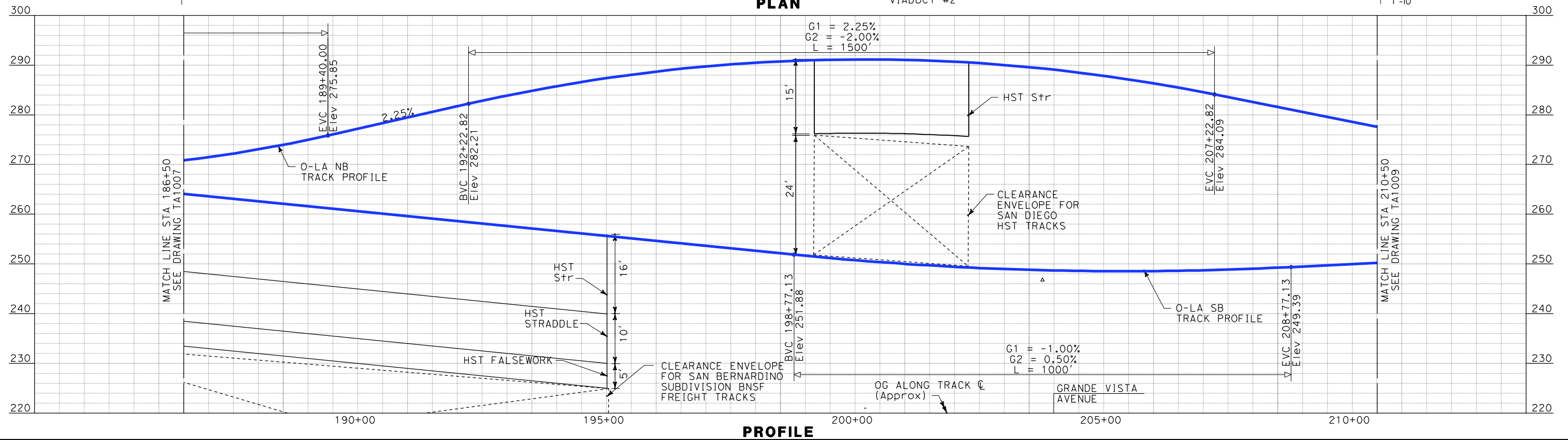
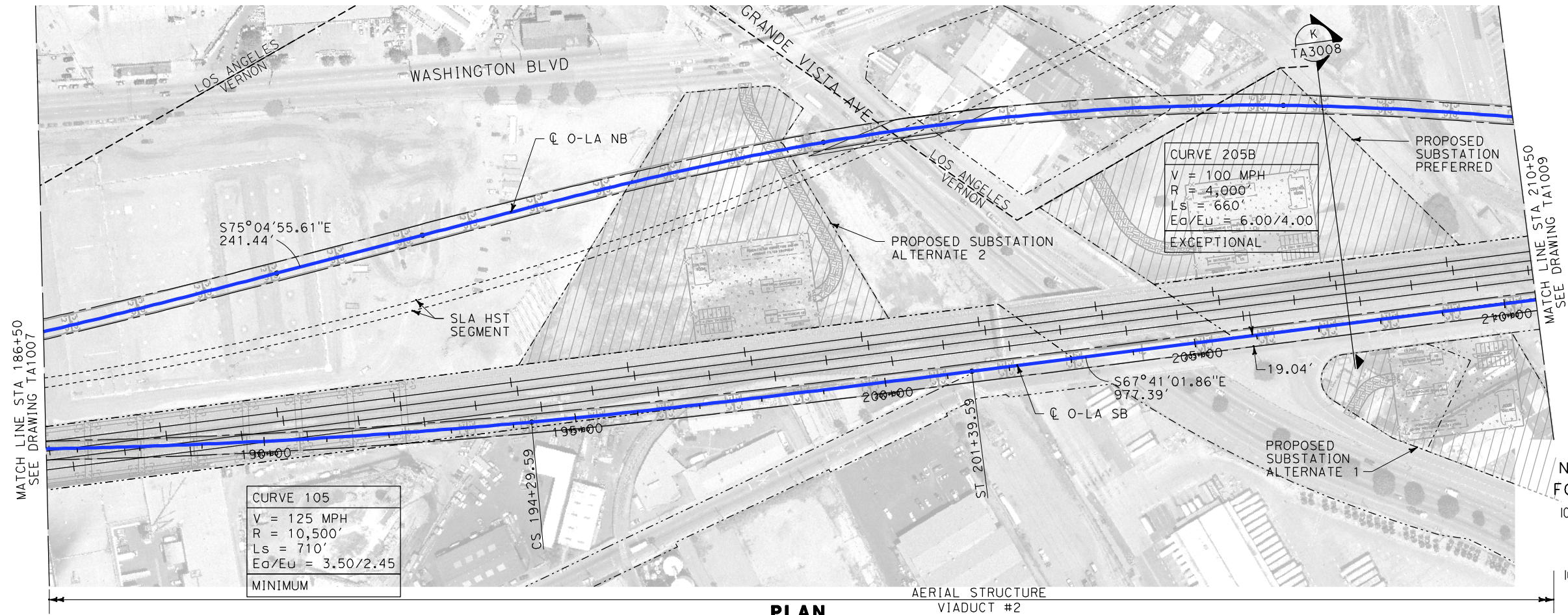


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ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT
PLAN AND PROFILE
STA 159+50 TO STA 186+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1007
SCALE AS SHOWN
SHEET NO.

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SPERRYKIM



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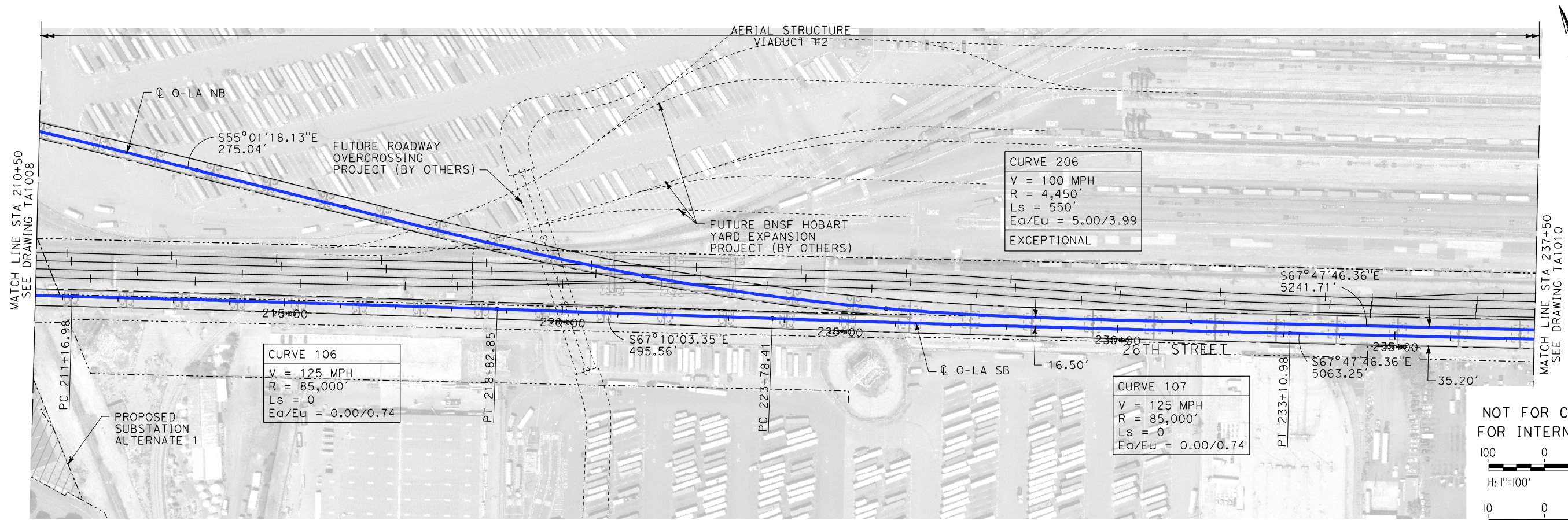
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 186+50 TO STA 210+50

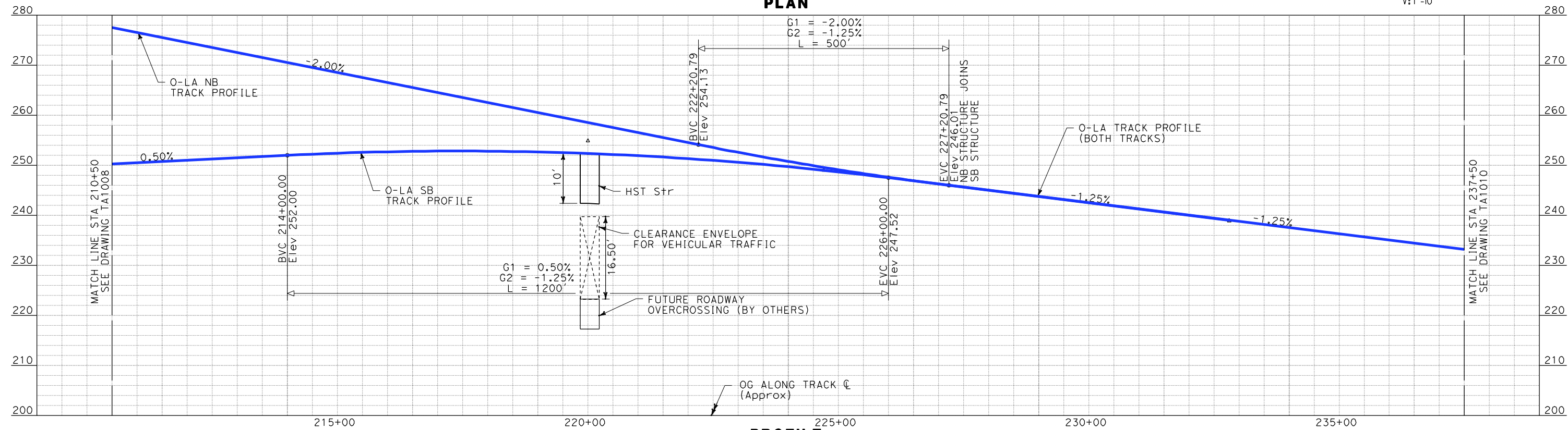
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sperrykm



PLAN



PROFILE

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DATE 12-22-09

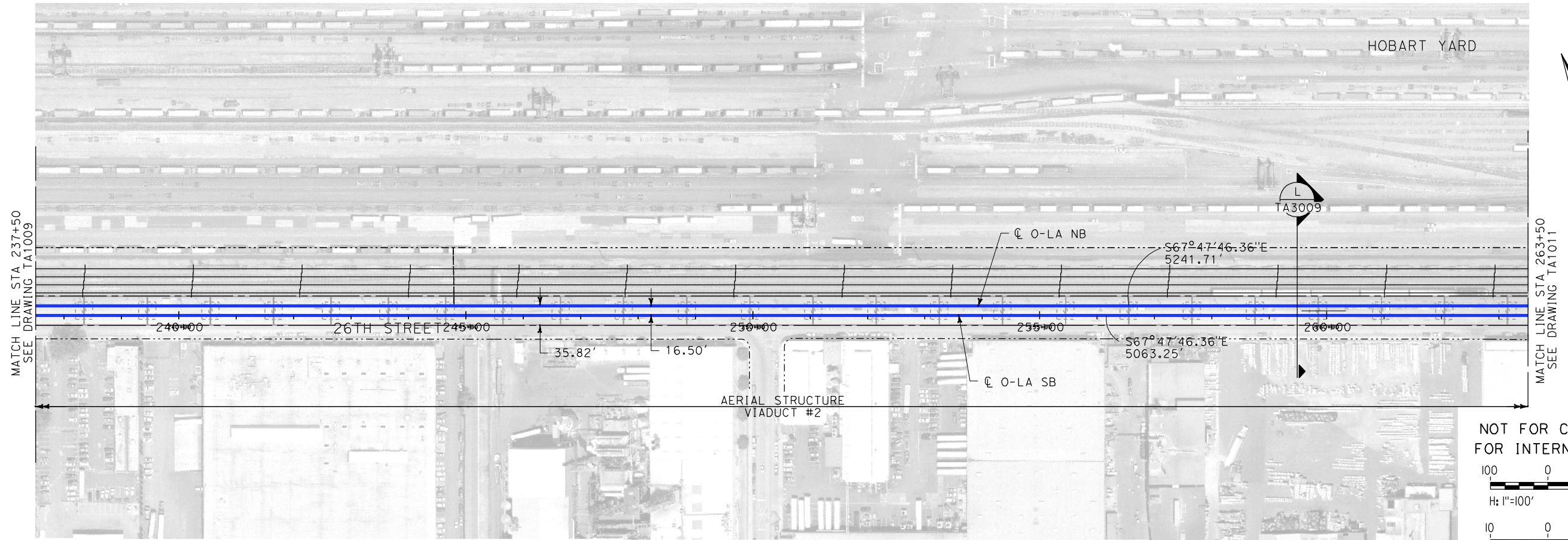


CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

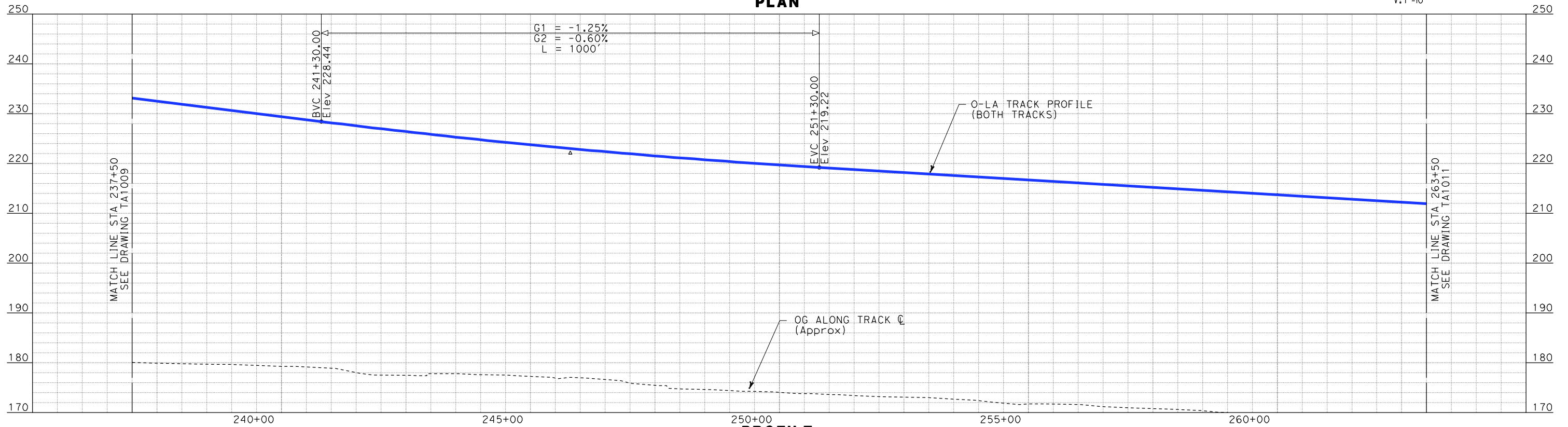
PLAN AND PROFILE
STA 210+50 TO STA 237+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1009
SCALE AS SHOWN
SHEET NO.

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PLAN



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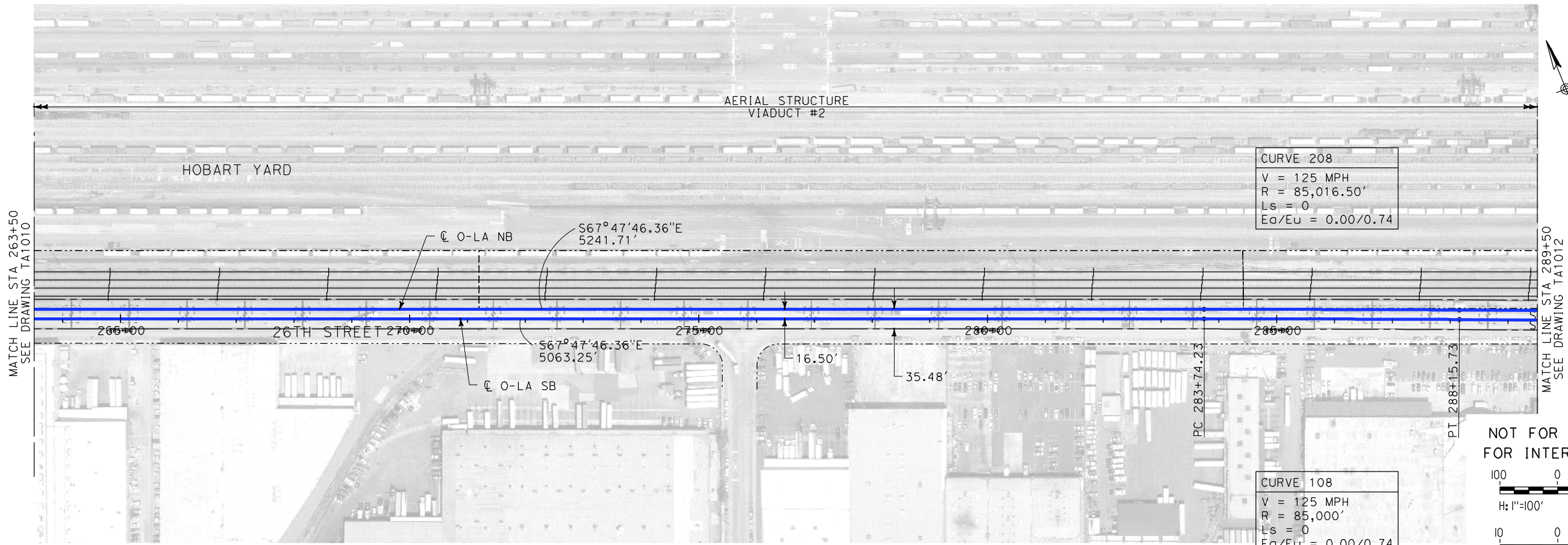


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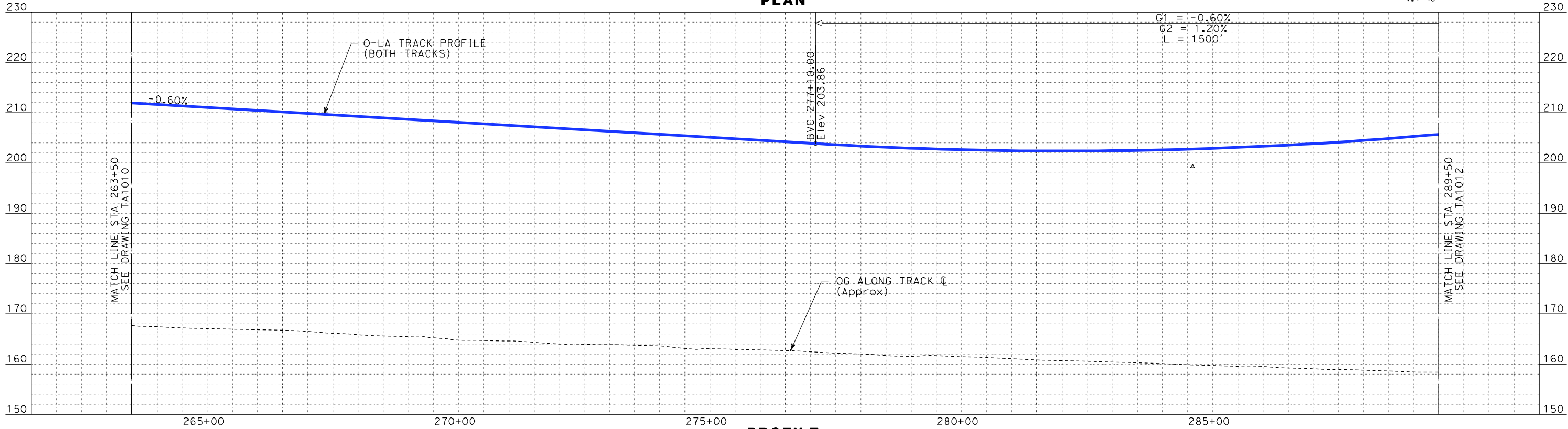
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 237+50 TO STA 263+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1010
SCALE AS SHOWN
SHEET NO.



PLAN



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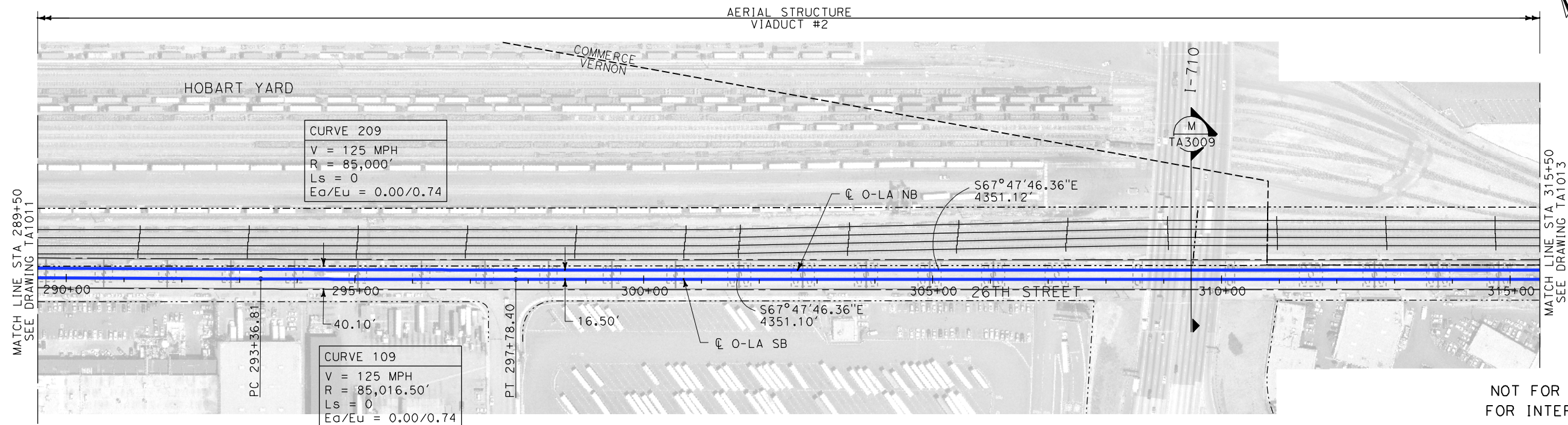


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ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 263+50 TO STA 289+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1011
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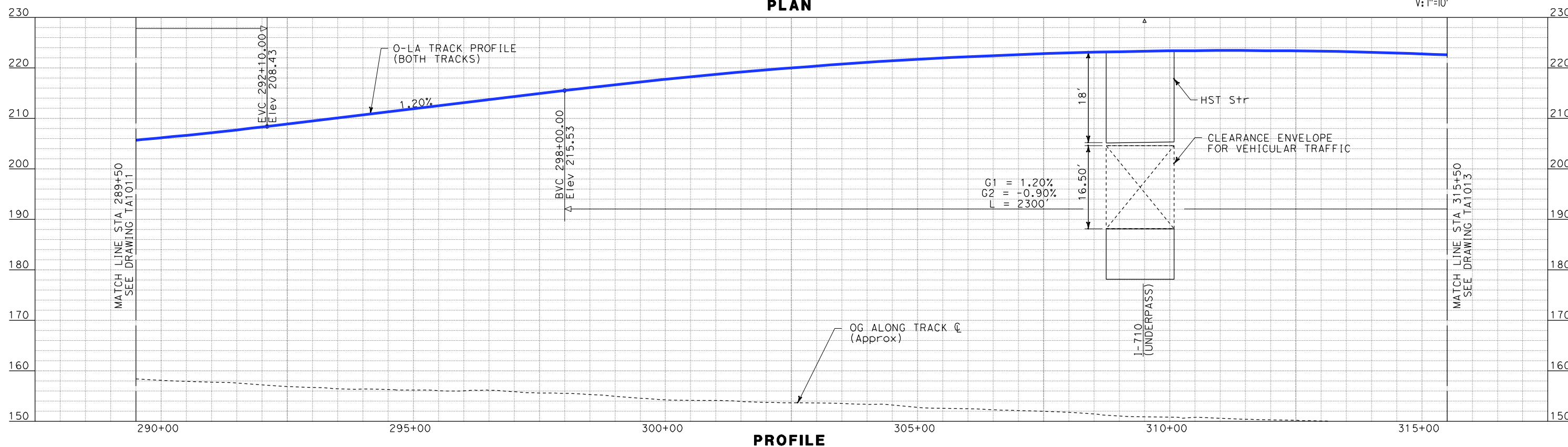
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100 0 100 200

H: 1"=100'

10 0 10 20

V: 1"=10'



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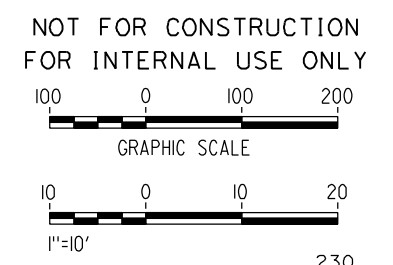
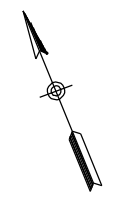
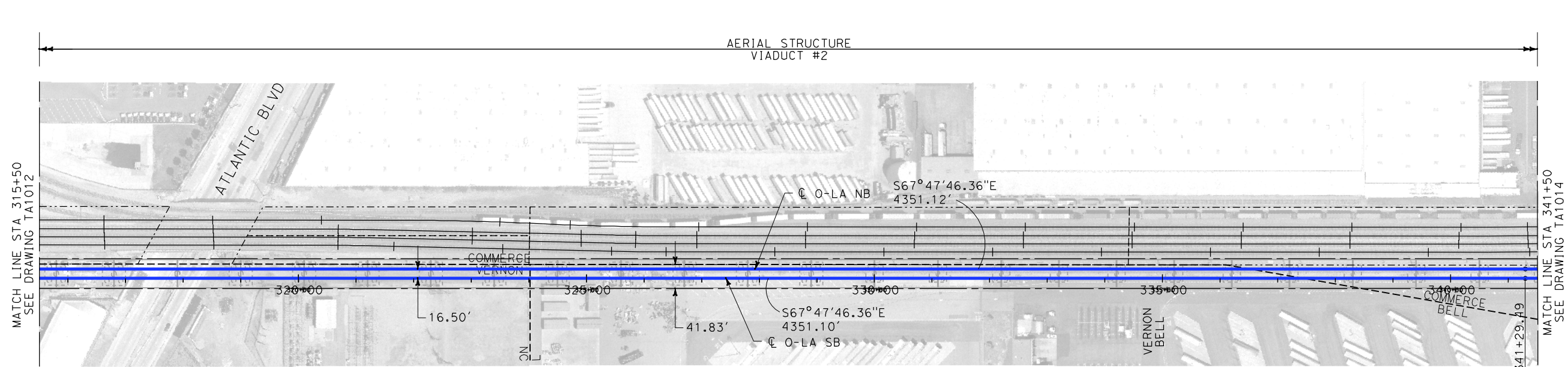


CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
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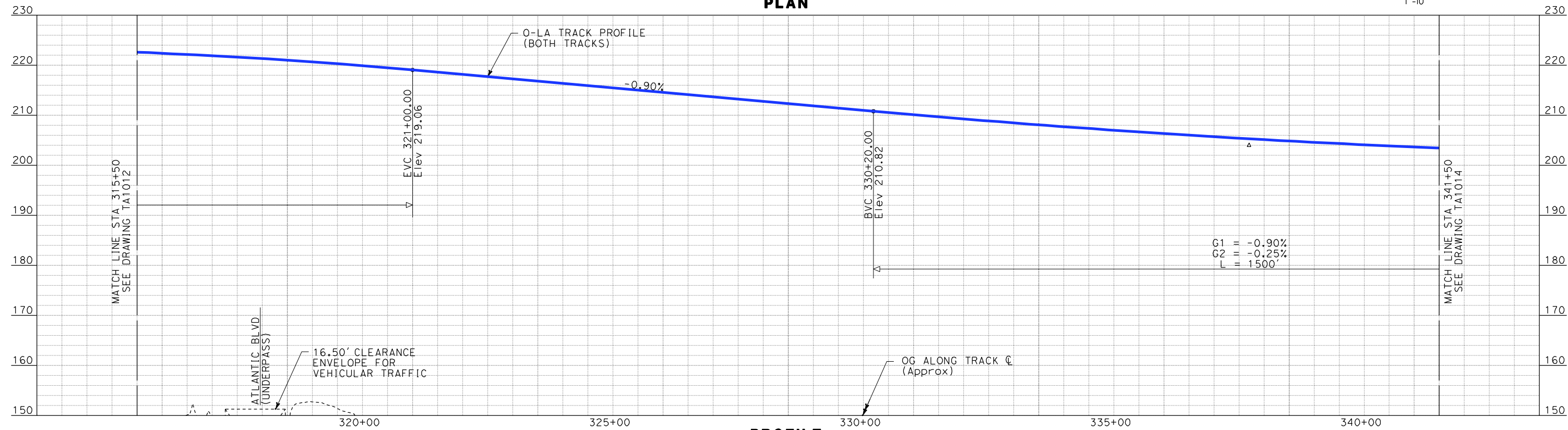
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 289+50 TO STA 315+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1012
SCALE AS SHOWN
SHEET NO.



PLAN

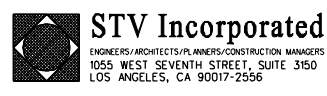


PROFILE

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REV	DATE	BY	SUB	APP	DESCRIPTION

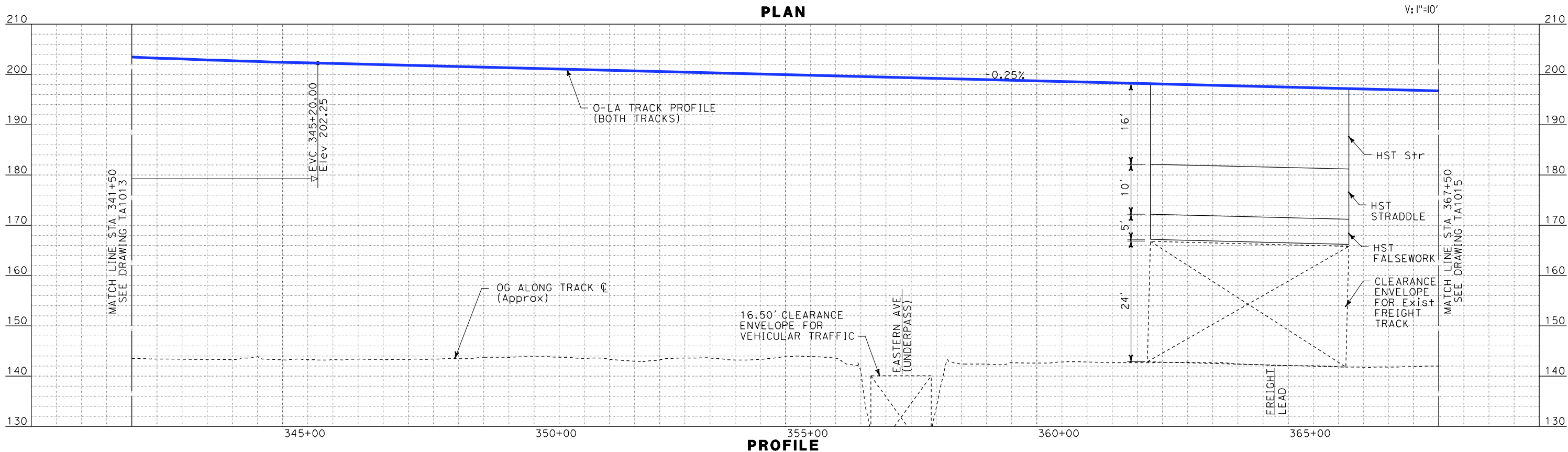
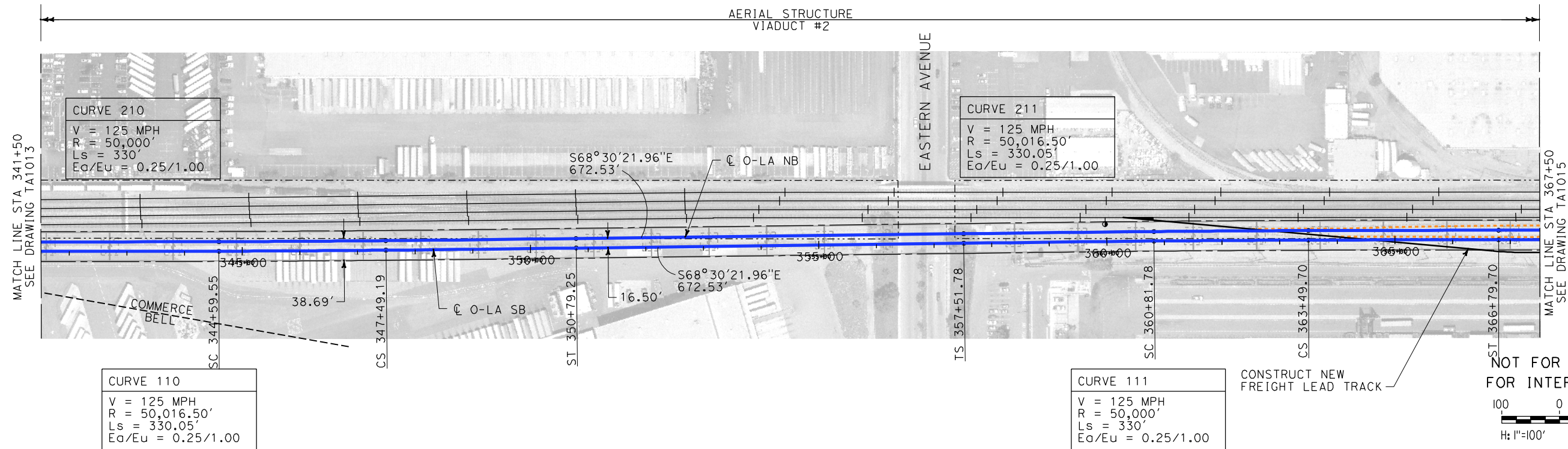
DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 315+50 TO STA 341+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1013
SCALE AS SHOWN
SHEET NO.



12/22/2009 11:06:03 AM I:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Plan-Profile\LO-TA-1014.dgn

REV	DATE	BY	SUB	APP	DESCRIPTION

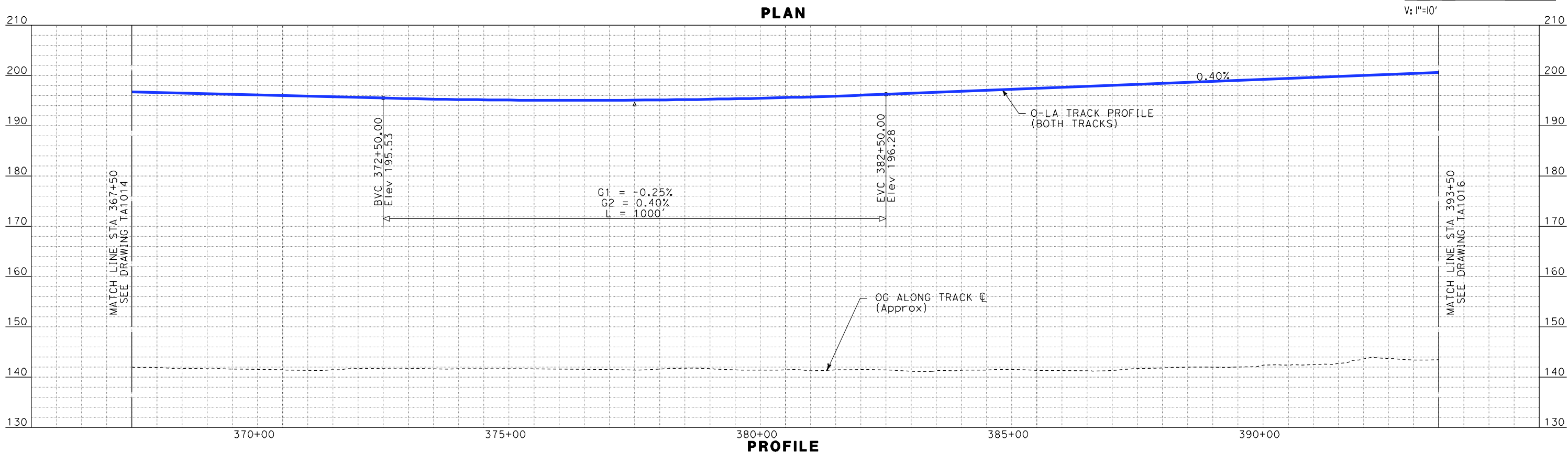
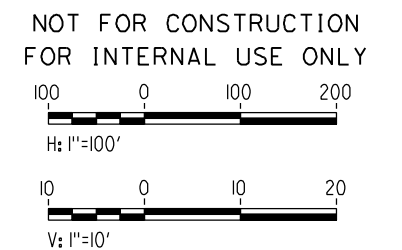
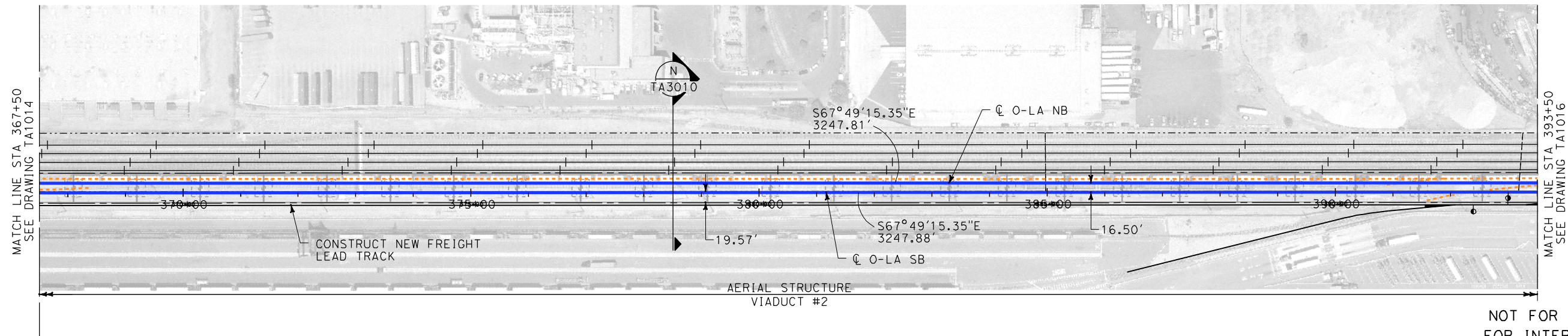
DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
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DATE 12-22-09



CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 341+50 TO STA 367+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1014
SCALE AS SHOWN
SHEET NO.



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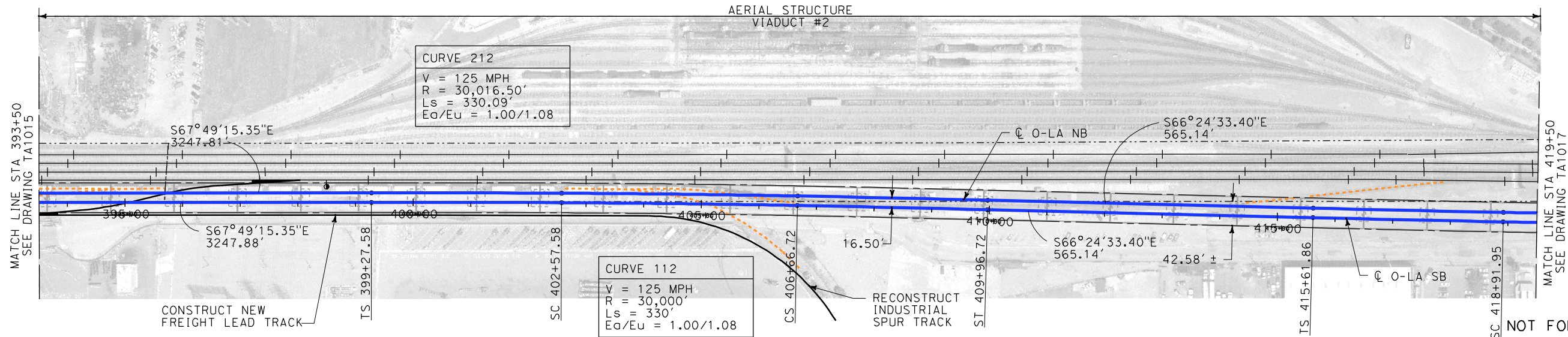
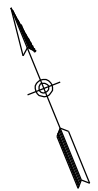


CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

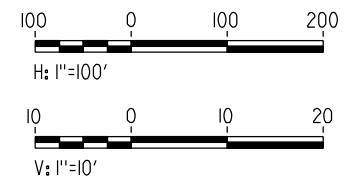
PLAN AND PROFILE
STA 367+50 TO STA 393+50

CONTRACT NO. HSR06-0005
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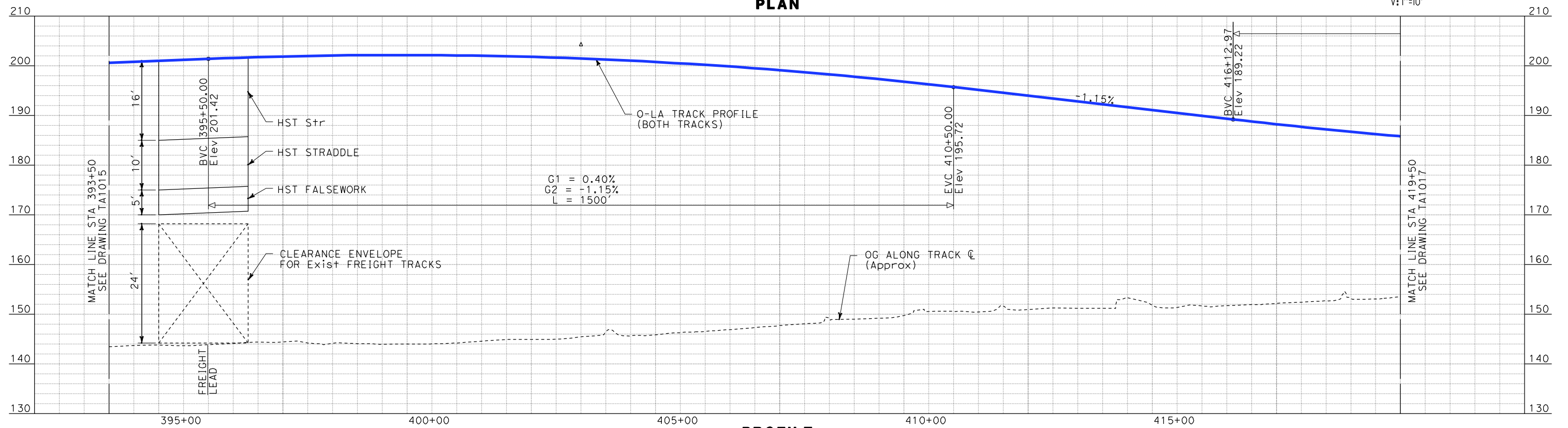
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DATE 12-22-09



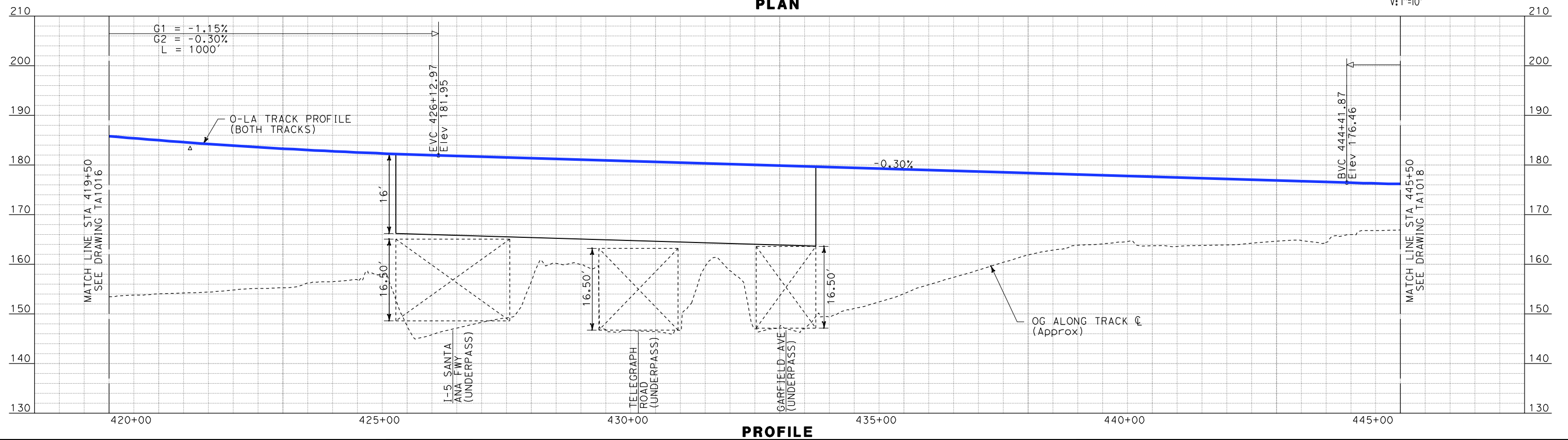
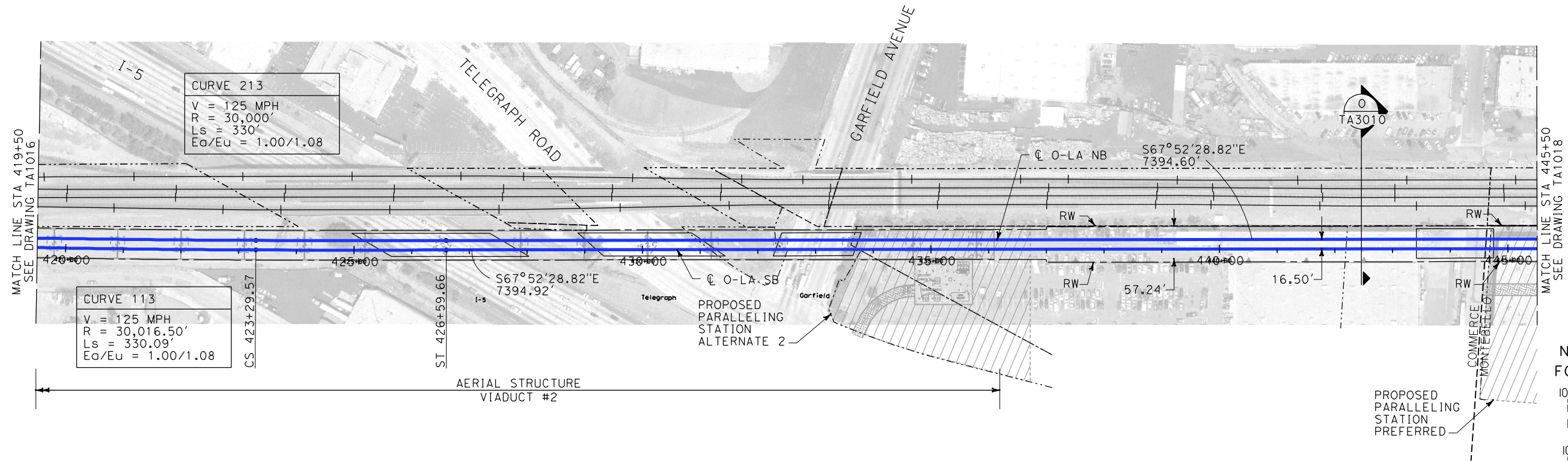
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 393+50 TO STA 419+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1016
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SHEET NO.

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SPERRY



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1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



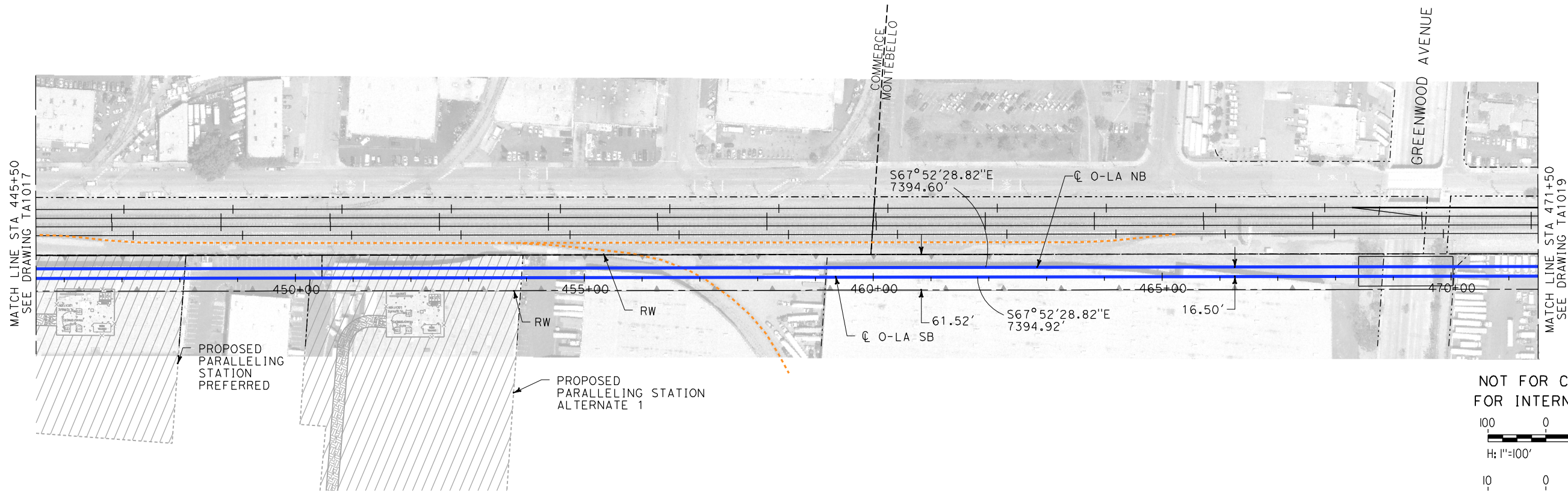
CALIFORNIA HIGH-SPEED RAIL AUTHORITY
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ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
PLAN AND PROFILE
STA 419+50 TO STA 445+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1017
SCALE AS SHOWN
SHEET NO.

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SPERRY



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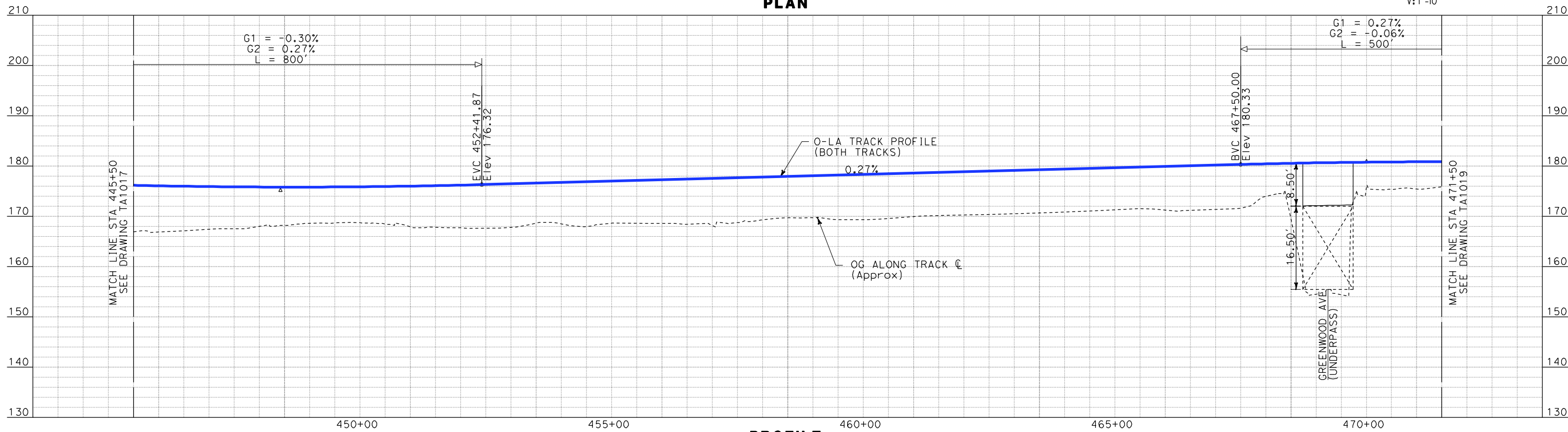
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H: 1"=100'

10 0 10 20

V: 1"=10'

PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. SOKOL
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1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556

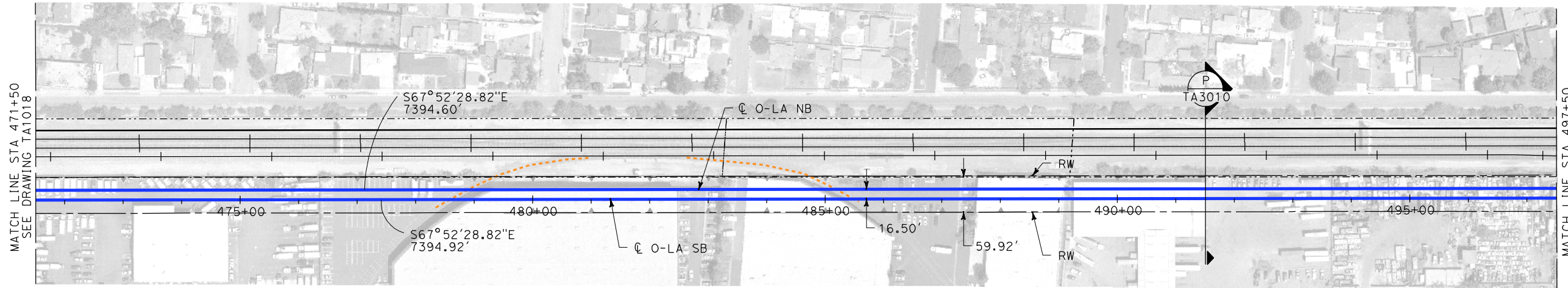


CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
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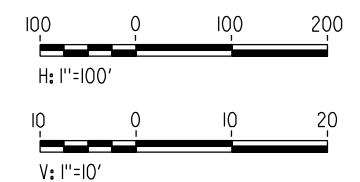
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 445+50 TO STA 471+50

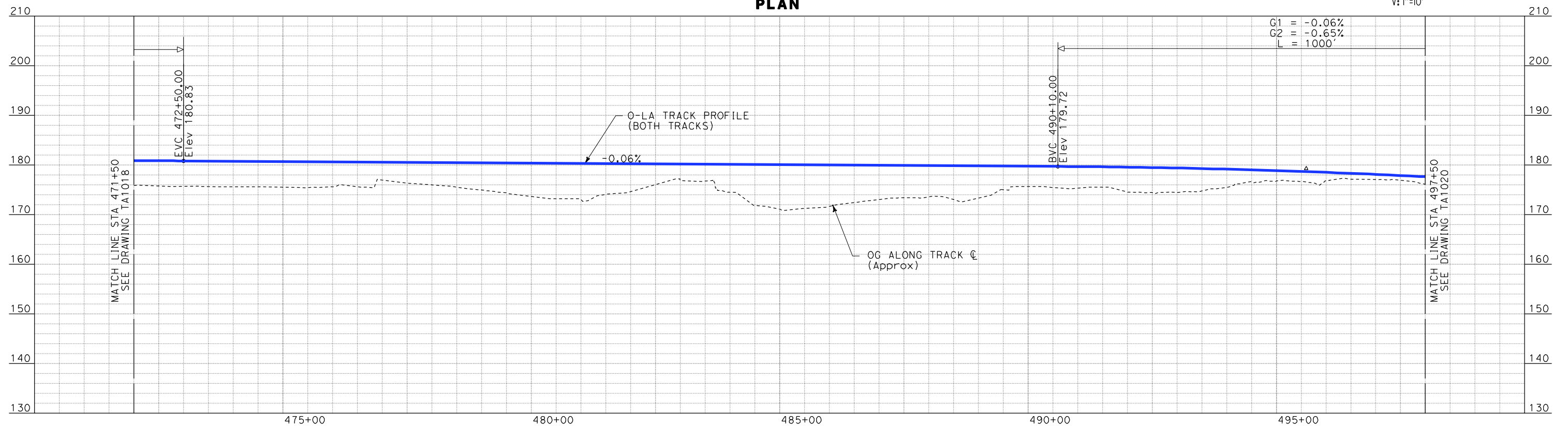
CONTRACT NO. HSR06-0005
DRAWING NO. TA1018
SCALE AS SHOWN
SHEET NO.



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PROFILE

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DATE 12-22-09



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1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



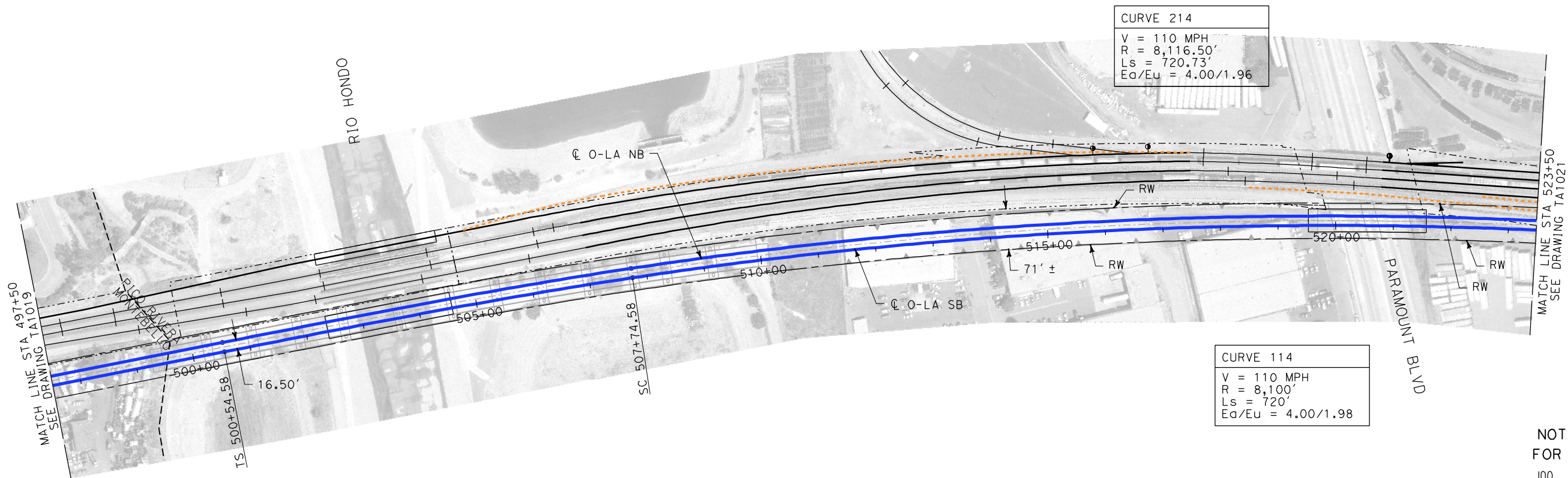
CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 471+50 TO STA 497+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1019
SCALE AS SHOWN
SHEET NO.

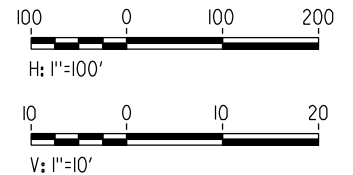
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SPERRYKIM



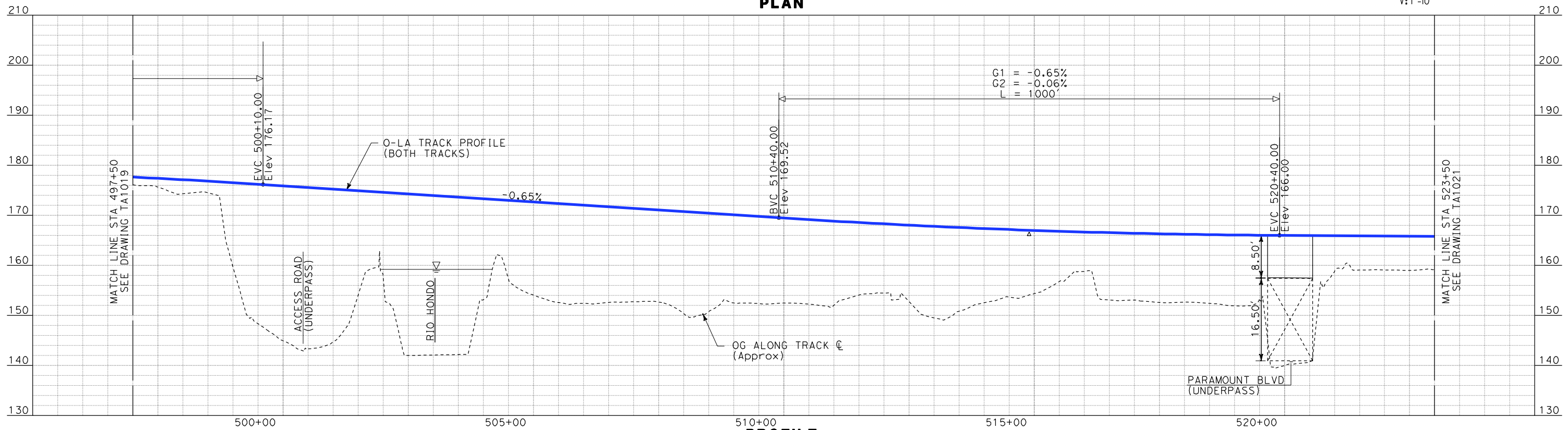
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V = 110 MPH
R = 8,116.50'
Ls = 720.73'
Ea/Eu = 4.00/1.96

CURVE 114
V = 110 MPH
R = 8,100'
Ls = 720'
Ea/Eu = 4.00/1.98

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1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556

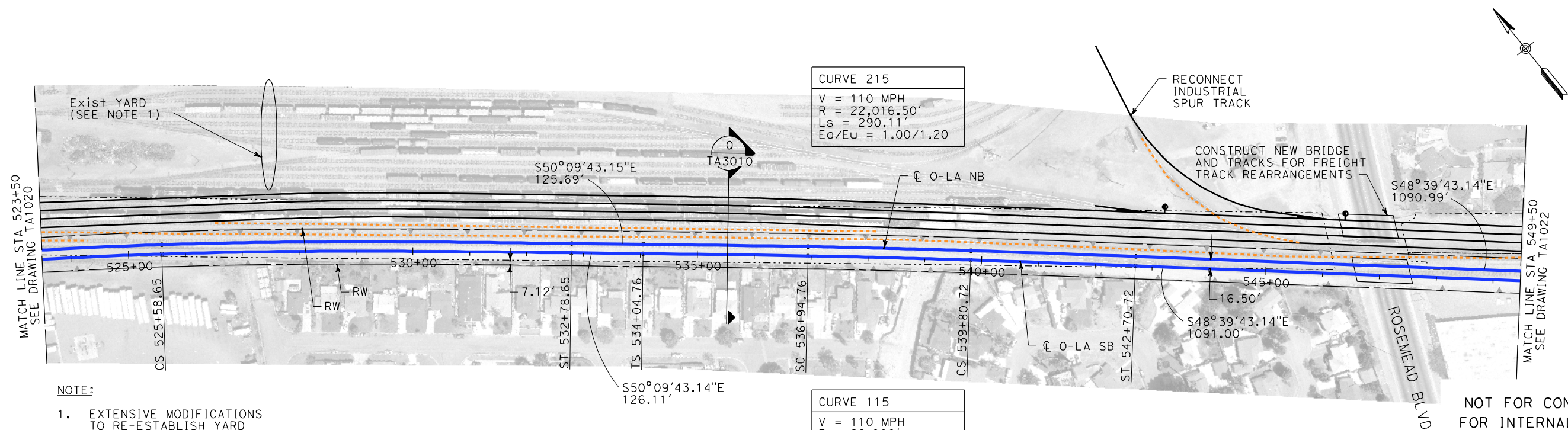


CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
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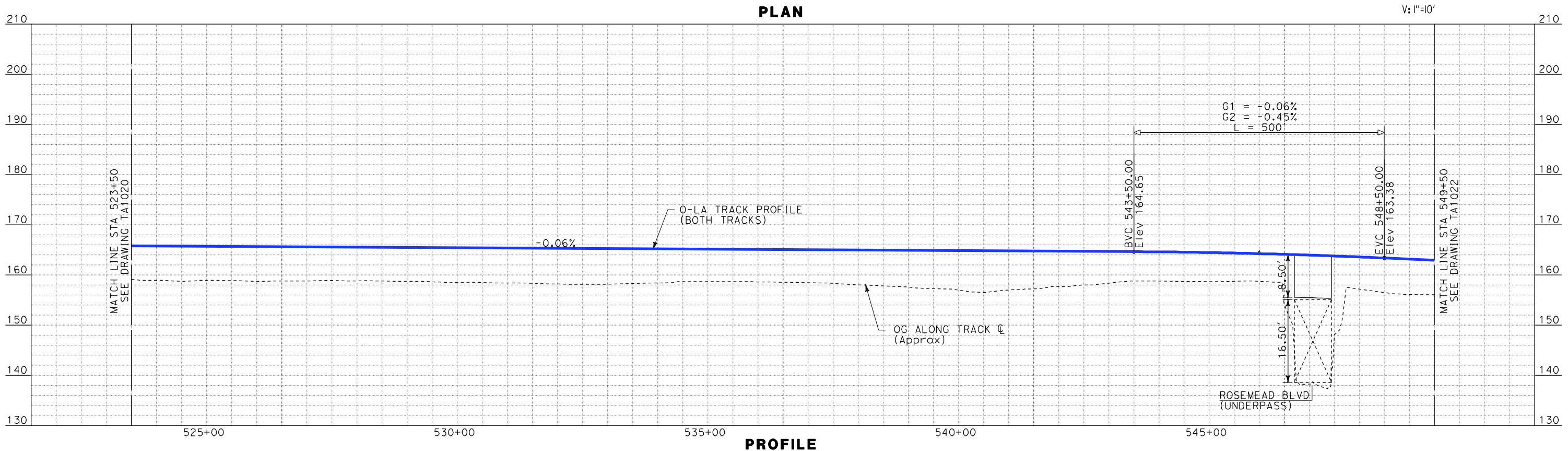
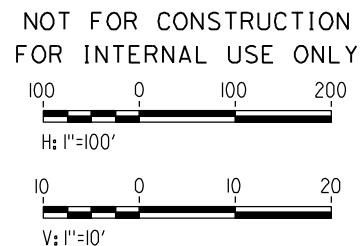
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 497+50 TO STA 523+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1020
SCALE AS SHOWN
SHEET NO.



NOTE:
1. EXTENSIVE MODIFICATIONS TO RE-ESTABLISH YARD TRACKS WILL BE REQUIRED. HST ALIGNMENTS SUBJECT TO CHANGE BASED UPON DISCUSSIONS AND COORDINATION WITH BNSF.



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DATE 12-22-09



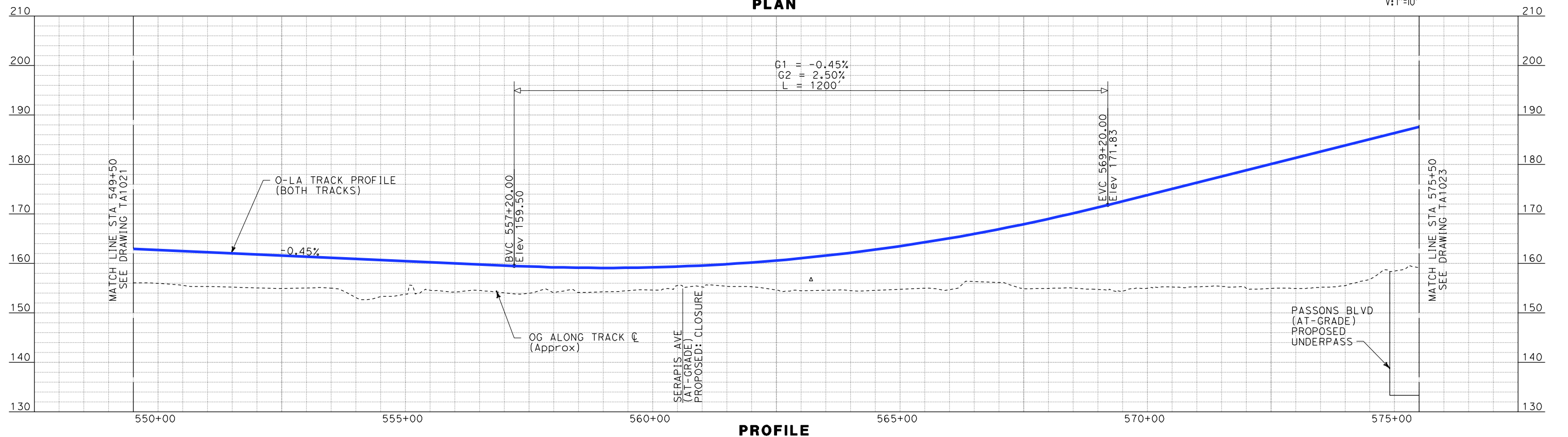
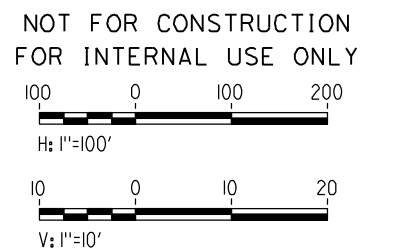
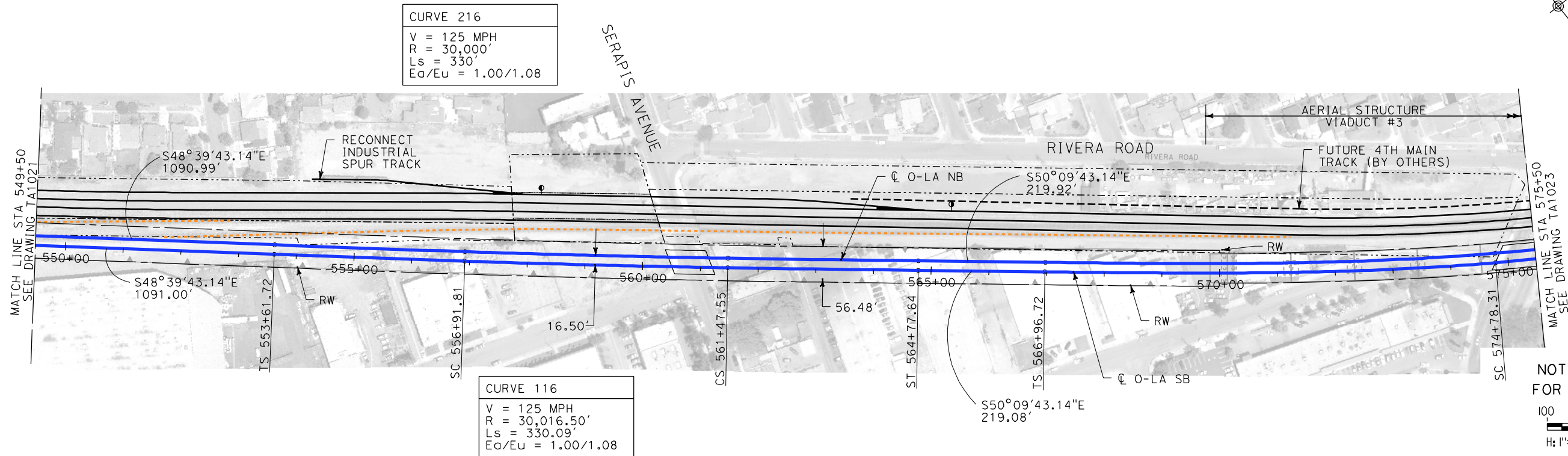
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 523+50 TO STA 549+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1021
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SHEET NO.

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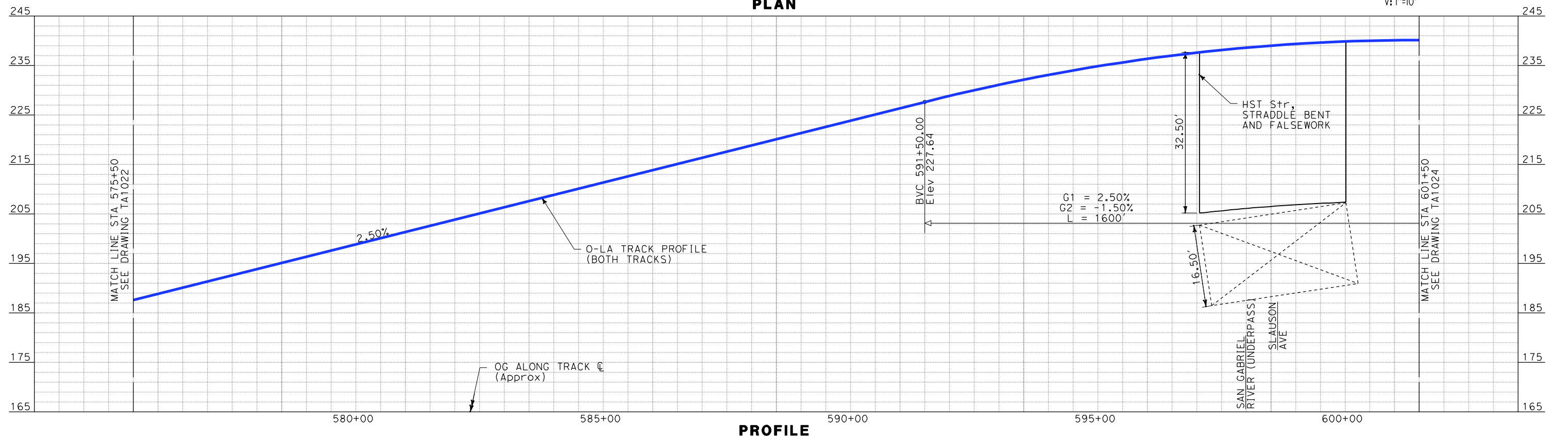
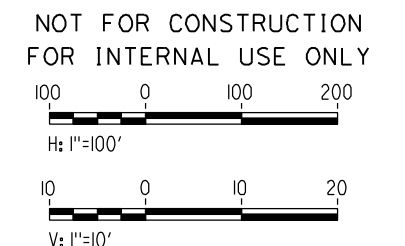
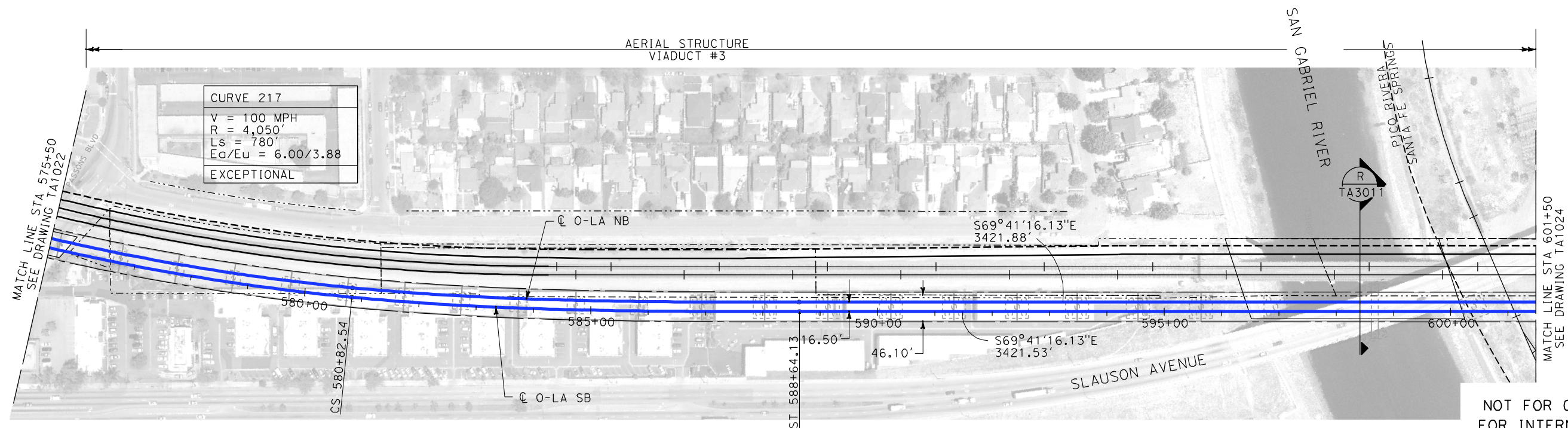
DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 549+50 TO STA 575+50

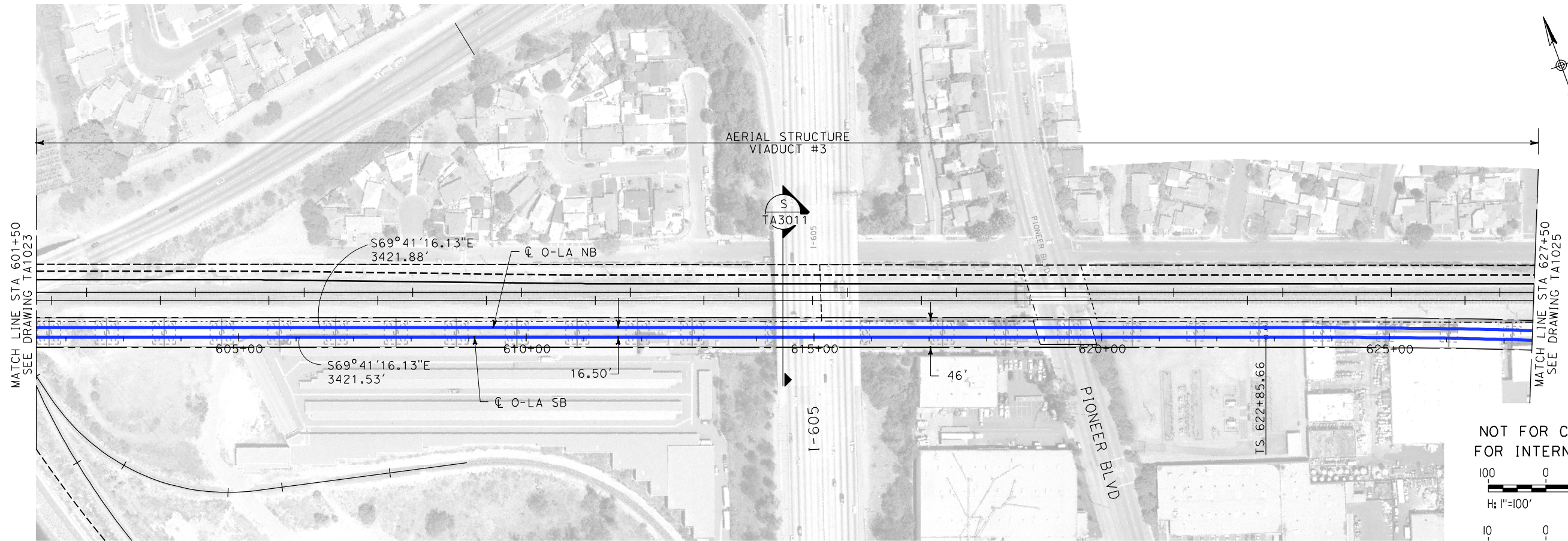
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SCALE AS SHOWN
SHEET NO.



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DESIGNED BY K. MCCULLOUGH DRAWN BY K. MCCULLOUGH CHECKED BY A. SOKOL IN CHARGE D. THOMSON DATE 12-22-09					STV Incorporated <small>ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS 1055 WEST SEVENTH STREET, SUITE 3150 LOS ANGELES, CA 90017-2556</small>		CALIFORNIA HIGH-SPEED RAIL AUTHORITY FLY CALIFORNIA <small>Without ever leaving the ground.</small>		CALIFORNIA HIGH-SPEED TRAIN PROJECT ORANGE COUNTY TO LOS ANGELES BASELINE ALIGNMENT PLAN AND PROFILE STA 575+50 TO STA 601+50		CONTRACT NO. HSR06-0005 DRAWING NO. TA1023 SCALE AS SHOWN SHEET NO.	
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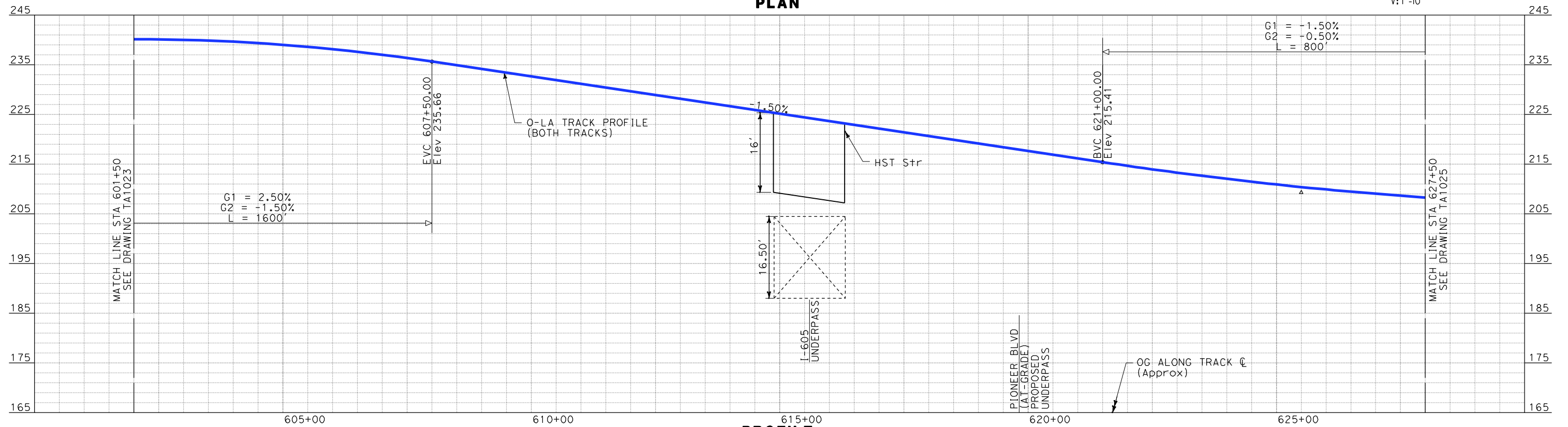
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H: 1"=100'

10 0 10 20

V: 1"=10'

PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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DATE 12-22-09



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1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



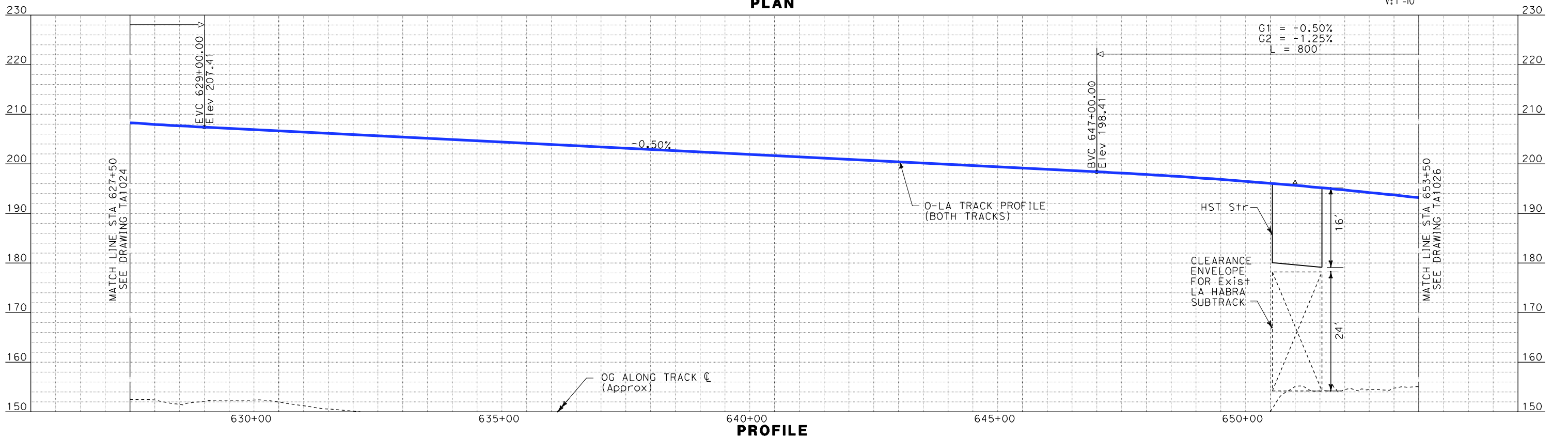
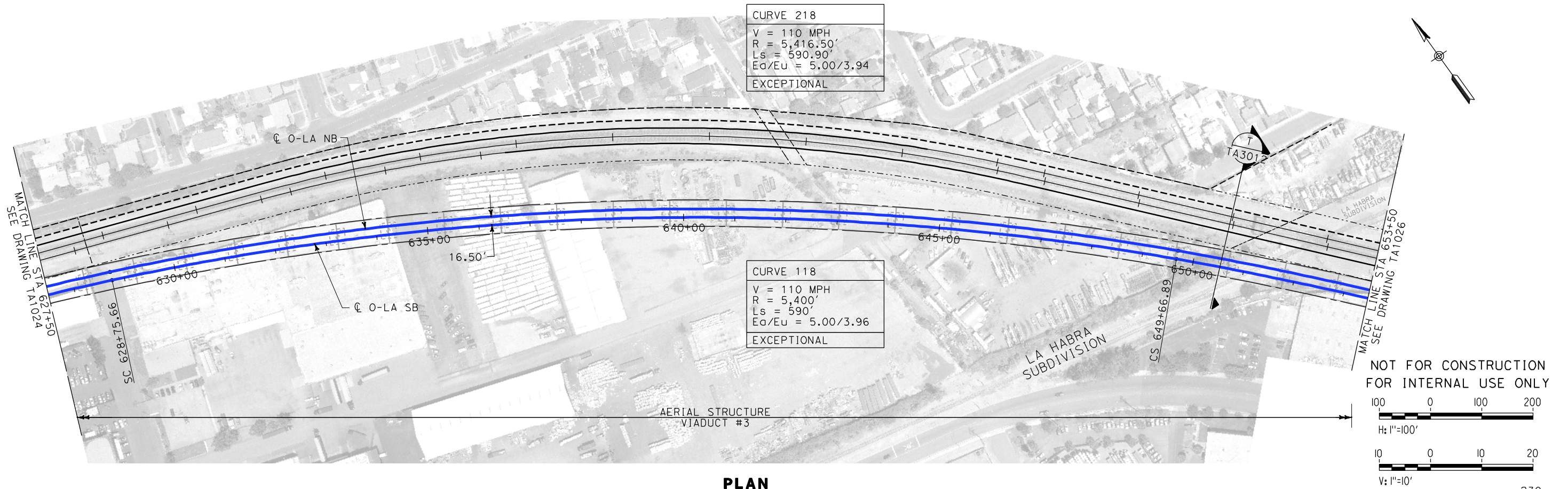
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ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 601+50 TO STA 627+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1024
SCALE AS SHOWN
SHEET NO.

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DESIGNED BY K. MCCULLOUGH
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DATE 12-22-09

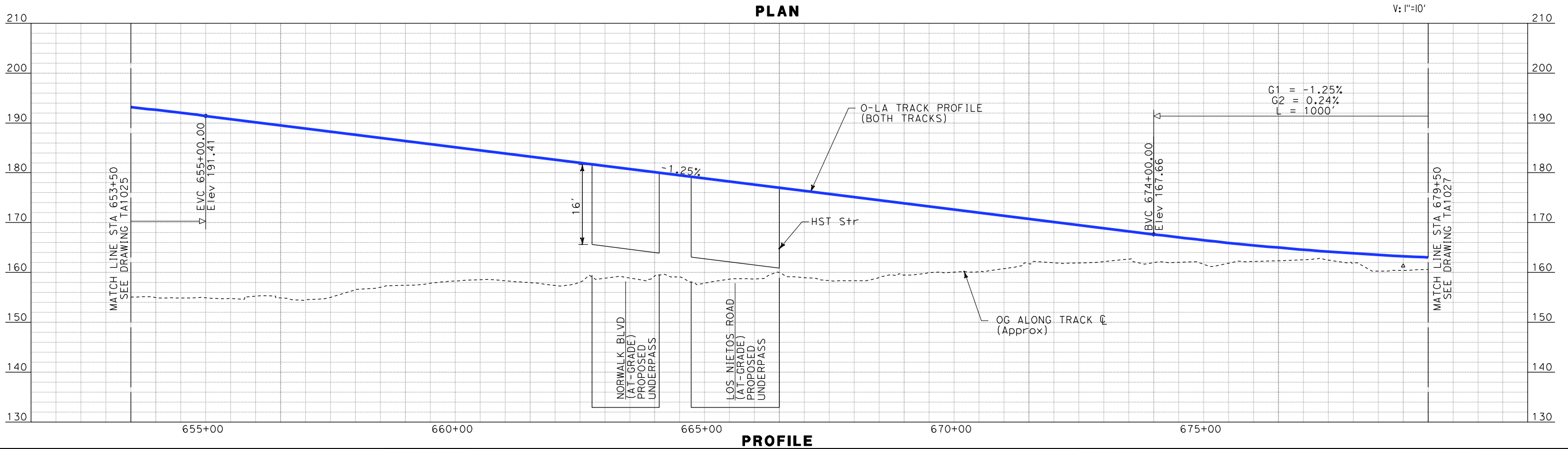
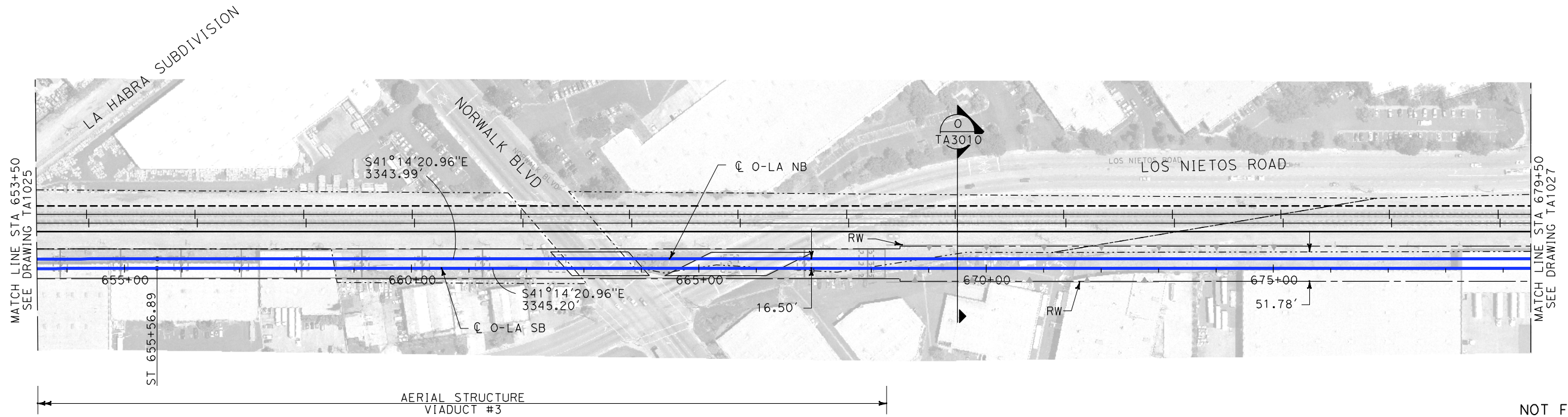


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 627+50 TO STA 653+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1025
SCALE AS SHOWN
SHEET NO.

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sperrykm



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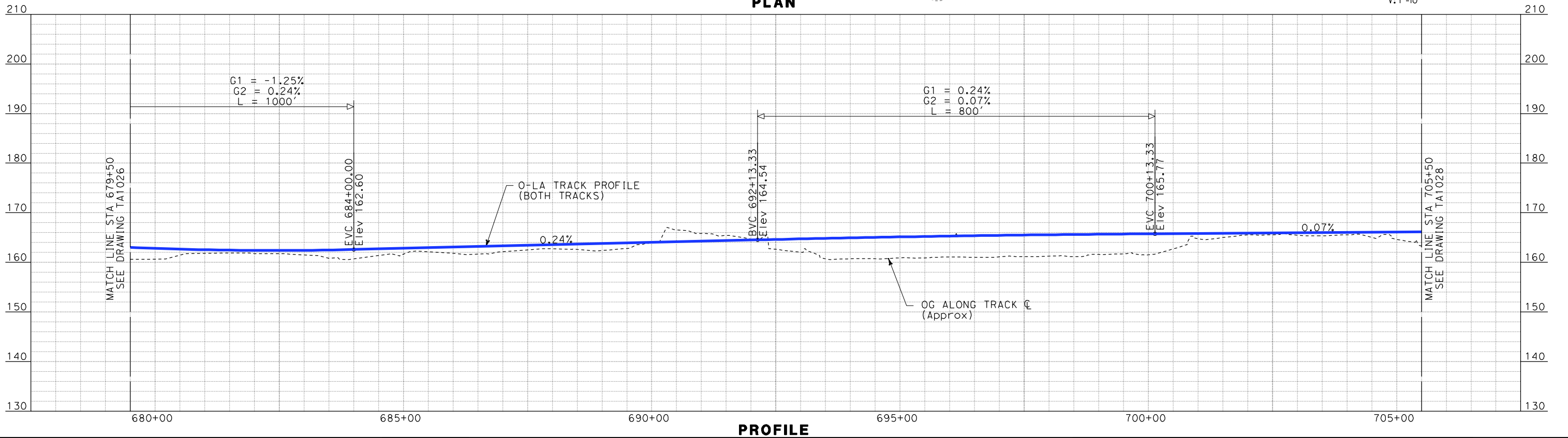
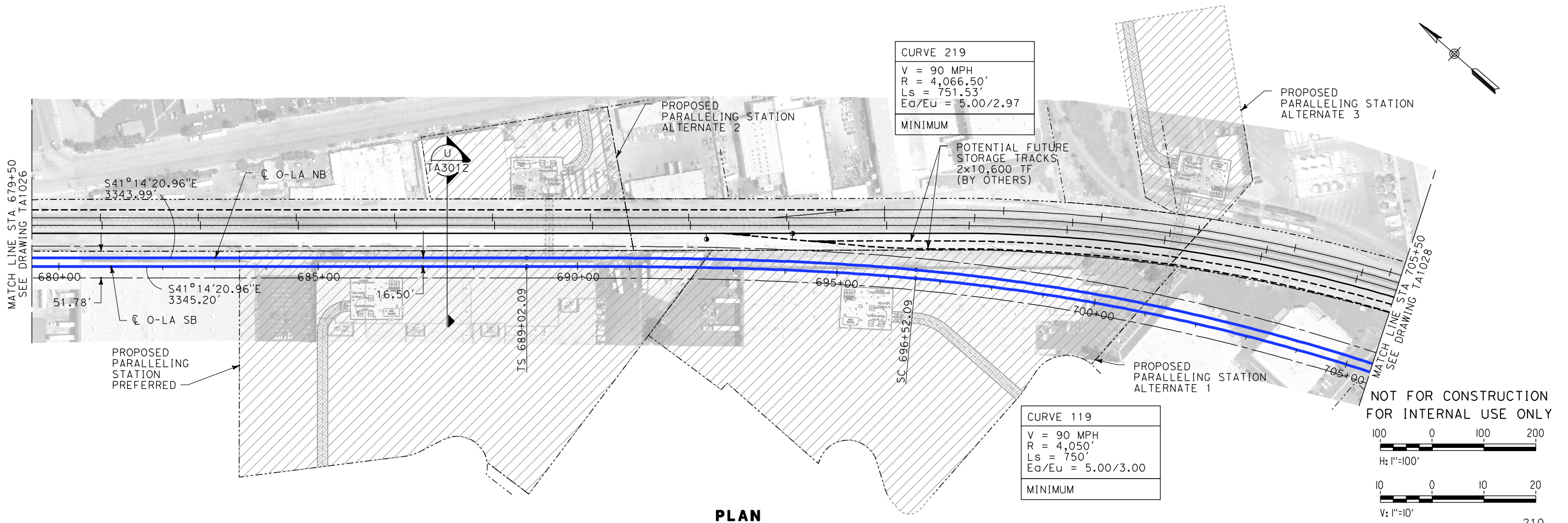
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 653+50 TO STA 679+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1026
SCALE AS SHOWN
SHEET NO.

12/22/2009 11:10:02 AM i:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Plan-Profile\LO-TA-1027.dgn

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 679+50 TO STA 705+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1027
SCALE AS SHOWN
SHEET NO.